

# THE GREEN PAGES OF CONSTRUCTION CHEMICALS

**KÖSTER**  
Waterproofing Systems

Complete product range

Edition 2015 / 2016

NOW  
WITH INDEX  
INCLUDED!

**KÖSTER**  
*Kellerdicht 2 Blitzpulver*

*Innenabdichtung  
gegen von außen  
durchdrückendes  
Wasser*



Since 1982, the KÖSTER BAUCHEMIE AG has been specializing in high quality waterproofing systems. With extensive experience at home in Germany and abroad, KÖSTER is constantly developing new ideas to best serve our customers with the most innovative solutions on the market. The "Green Pages of Construction Chemicals"

is our most important communication tool and is an essential reference for many architects, engineers, and applicators in their daily work. That is why we constantly strive to provide you with the most up-to-date information. The Green Pages of Construction Chemicals present our large number of materials and systems in an easy to follow format. The catalogue is grouped by the various fields of application, such as Waterproofing, Coatings, Injection Systems or Roofing. These sections are easily distinguished by a colored tab for your convenience. Within each chapter, products are listed by order of their respective type of product such as (1) Primers, (2) Main Products, (3) Top Coats, (4) Broadcast Media, (5) Mortars/Fillers, etc. Product groups consist of all necessary KÖSTER products for each field of application including associated products, spare parts, and tools. At the end of each chapter typical solutions with KÖSTER products are graphically shown and explained. Thus, finding the optimal and complete waterproofing solution for each project, from basement to roof, is made simpler. As always, our consultants are available for assistance at any time – don't hesitate to contact us.

Please visit our website [www.koster.eu](http://www.koster.eu), for further information and to find your local sales representative!

With best regards from Aurich,

Johann J. Köster  
KÖSTER BAUCHEMIE AG



## The fastest way to your waterproofing products – the KÖSTER distribution channel

### A one-stop-shop for product guidance and delivery service

KÖSTER systems and products stand out due to their exceptionally easy and user-friendly application. Nonetheless, technical solutions require technical explanations. That's why we offer comprehensive trainings and technical consultation in order to ensure appropriate application. Our distribution network is based on a worldwide system of experienced technical consultants who serve as your first contact for technical questions and the delivery of our products – if required, even directly to your construction site.

### How to reach your contact person

If you are not yet a KÖSTER customer, please contact our international department for more information – everything necessary will be arranged immediately. Alternatively, all relevant information and contact details of the technical consultant in charge of your area are available on the internet.

Email: [info@koster.eu](mailto:info@koster.eu)

Website: [www.koster.eu](http://www.koster.eu)

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The information contained in this catalogue are non-binding and do not release persons in charge from their responsibility for the correct planning, application under consideration of the specific conditions of the construction site and for the final results of the construction process. The valid standards for testing and installation, acknowledged rules of technology as well as our technical guidelines have to be adhered to at all times.



# ***KÖSTER: More than 30 years of waterproofing experience***

*KÖSTER BAUCHEMIE AG has specialized in waterproofing products and systems for decades. These systems protect and preserve buildings and structures worldwide.*

*Whether the subject is the restoration of historic buildings, waterproofing new buildings, restoration of masonry, waterproofing of wet basements, roofs or façades: with our comprehensive product range, we have the optimal solution.*

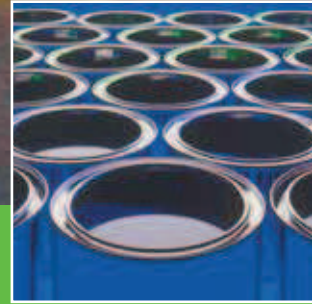
## ***Efficient and effective waterproofing – systems around the globe***

*KÖSTER waterproofing systems and products are applied worldwide. The headquarters with the main production facilities in Aurich, Germany and subsidiaries in Bulgaria, China, Croatia, India, Japan, the Netherlands, Poland, Portugal, Turkey, the UK and the USA supply the sales channels worldwide. A large network of agencies and distribution centers in Germany, Europe and overseas guarantees that KÖSTER products are where they are needed shortly after they are ordered.*





*Our experienced technical consultants support architects, building owners and applicators with advice and practical help.*



*Every product reflects the state of the art and is subject to stringent quality controls.*

## ***Environmentally friendly products of the highest quality***

*The KÖSTER BAUCHEMIE AG invests a lot of time and effort in the research and development of new waterproofing systems and products. The KÖSTER BAUCHEMIE AG is a responsible manufacturer, who emphasizes preserving the environment by developing and producing environmentally friendly products through resource saving production.*

*Test certificates and regular monitoring by third party laboratories confirm the high quality of KÖSTER waterproofing systems.*

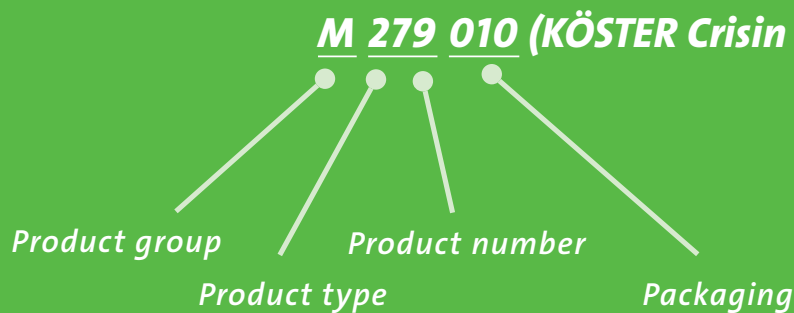


## ***Your reliable partner in construction***

*The distribution of our products via technical consultants ensures that applicators receive the support they need in order to apply our products effectively and properly. Waterproofing material systems from KÖSTER – you can rely on them!*

*From professionals for professionals: Products from the KÖSTER BAUCHEMIE AG have been developed and produced to prove their value at all times during professional applications – optimized for on-site use and easy to apply with short, time saving application and curing times.*

## The article number system explained in brief:



The 2015/2016 edition of the Green Pages features a new article number system. Article numbers are now sorted according to field of application. As a result, product groups include complete systems for the respective field of application. For example, the product group “IN” (injection) not only includes injection resins but also associated injection packers, injection pumps, spare parts and tools. This makes finding products even easier.

Additionally, the Green Pages are no longer split into two parts with the first half covering fields of application and the second half composed of product descriptions. Instead, product descriptions and an overview of corresponding fields of application have been combined together and are separated by section. For instance, the first section, waterproofing, distinguished by a capital “W”, features all waterproofing products followed by fields of application in waterproofing such as external/internal basement waterproofing and the waterproofing of tanks and pipes.

The article numbers have the following structure:

### **M 279 010 (KÖSTER Crisin 76 Concentrate)**

The M stands for “Masonry” and represents the field of application restoration of masonry and anti-mold systems. A complete list of all fields of application is listed on the following page.

### **M 279 010 (KÖSTER Crisin 76 Concentrate)**

The first number (in the example “2”) indicates the type of product:

- |   |   |
|---|---|
| 1 | Primers / substrate preparation                     |
| 2 | Main products: Coating / paint / injection material |
| 3 | Finish / sealer                                     |
| 4 | Broadcast / reinforcement                           |
| 5 | Mortars / sealing pastes                            |
| 6 | Plaster / Anti-mold boards                          |
| 7 | Additives   |
| 8 | Waterproofing membranes                             |
| 9 | Tools / Accessories                                 |

### **M 279 010 (KÖSTER Crisin 76 Concentrate)**

The following two numbers (in the example “79”) indicate the product number in each category.

### **M 279 010 (KÖSTER Crisin 76 Concentrate)**

The last three numbers indicate the delivery form. For example, “010” means 10 ltr, or 10 kg., respectively.

An additional letter at the end indicates a further specification. For example, W 210 008 B (KÖSTER 21 B component).

In the case of roofing membranes, the article number is completely comprised from the product description:

The article number for the roofing membrane KÖSTER TPO 1.8 – 2.10m is RT 818 210 (Roofing TPO / “8” = waterproofing membrane / 18 = 1.8 / 210 = 2.10 m width). The standard color is light grey. Other colors are indicated by an additional letter (for example: RT 818 210 W stands for the white).

## Range of products

On the following pages, you will find an overview of the KÖSTER product range. Products have been itemized by field

### **W** Waterproofing systems

Basement, tank, and area waterproofing (page 8-31)

### **M** Masonry

Restoration of masonry, anti mold systems (page 32-43)

### **IN** Injection systems

Crack injection and crack repair systems (page 44-57)

### **C** Concrete protection and repair

Concrete and mortar additives (page 58-65)

### **SL** Self leveling underlayments

Self leveling mineral underlayments, floor patching materials, corresponding primers (page 66-70)

### **CT** Coatings

Floor and corrosion protection coatings, moisture control systems (page 71-79)

### **J** Joint sealing

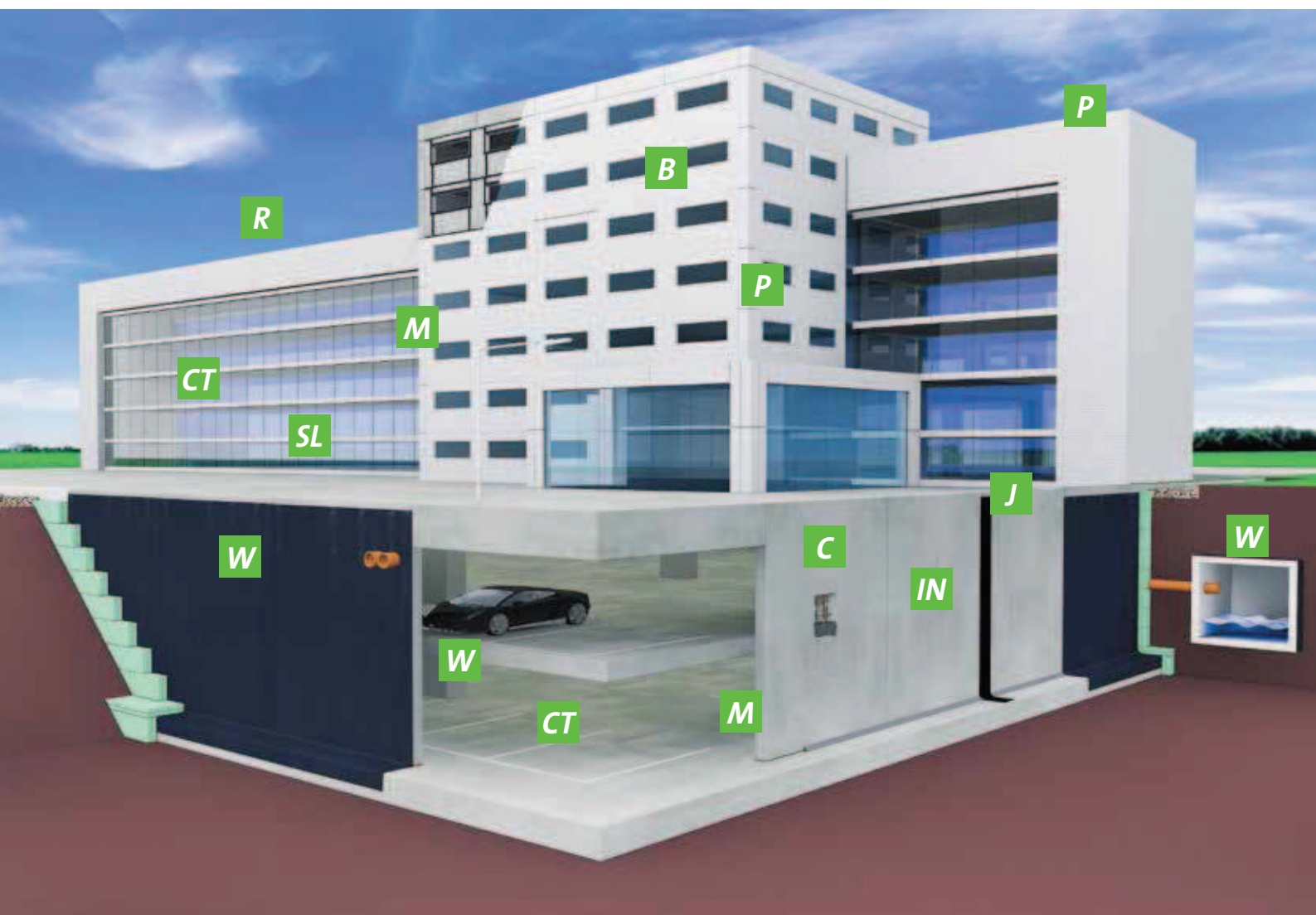
Joint sealants, joint tapes (page 80-86)

### **B** Wet room waterproofing (page 87-90)

### **P** Façade protection and paints (page 91-94)

### **R** Roofing membranes, roof waterproofing (page 95-102)

### **X** Accessories (page 103-106)





**W** ***Waterproofing systems***  
*Basement, tank, and area waterproofing*

**W**

**KÖSTER**  
**KSK Primer SP**


Solvent-containing, strongly adhesive, fast curing, synthetic resin based primer for KÖSTER KSK membranes

Article No. Packaging

W 110 005 5 l

Consumption: approx. 0.1 ltr/sqm, 0.2 ltr/sqm on aerated concrete

**KÖSTER**  
**Bitumen Primer**


Brush or spray applied, dust-binding, solvent-containing bitumen primer. Suitable for cold applied self adhesive waterproofing membranes and bitumen based waterproofing, for example rubberized bitumen thick film sealants. Suitable as bonding agent on old bitumen.

W 110 010 10 l

Consumption: approx. 0.15 - 0.2 l/sqm

**KÖSTER**  
**Polysil TG 500**


Primer for mineral substrates before waterproofing with cementitious waterproofing slurries and PMBCs. In case of masonry restoration it is used in order to immobilize salts. KÖSTER Polysil TG 500 is a low viscous, substrate solidifying, hydrophobizing combination product on a polymer / silicate basis for the protection of mineral substrates. On salt burdened and moist substrates, it causes a reduction of the pore volume and thereby reduces the formation of salt efflorescence.

M 111 001 1 kg  
M 111 010 10 kg

Consumption: approx. 0.1-0.25 kg/sqm

**KÖSTER**  
**KSK Primer BL**


Solvent-free primer for the application of KÖSTER KSK waterproofing membranes above 5 °C. Strongly adhesive, based on emulsified bitumen with a high synthetic content.

W 120 015 15 kg

Consumption: approx. 0.25-0.4 kg/sqm

**KÖSTER**  
**Bitumen Emulsion**


Solvent-free, low viscosity bitumen emulsion with excellent adhesive properties. It can be used as a primer or waterproofing. Fields of application: Concrete protection and external basement waterproofing.

W 190 030 30 kg

Consumption: approx. 0.2 - 0.3 kg/sqm

## KÖSTER 21



**A multi purpose waterproofing product with excellent adhesion to dry and moist substrates.**

KÖSTER 21 is a 2 component, solvent-free, liquid applied, elastic and crack bridging material. Due to its UV stability it is suitable for indoor and outdoor use. The white color reflects sunlight and reduces building surface temperatures. The fast curing coating is highly flexible, resistant to occasional foot traffic, aging, hydrolysis, UV-rays, frost, and salt. KÖSTER 21 seals against synthetic oils and aliphatic hydrocarbons with high boiling points (up to 2 bar). CE certification according to DIN EN 1504-2.



### Consumption

approx. 2,5 - 3,0 kg / m<sup>2</sup>

### Article No.

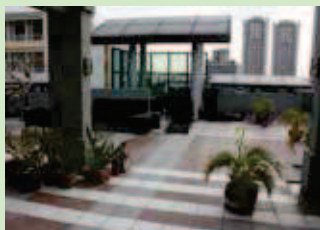
W 210 020

### Packaging

20 kg



Liquid roof waterproofing



Waterproofing balconies/terraces



Waterproofing on bitumen



Foundation waterproofing

## KÖSTER KD 1 Base



Fast setting, mineral sealing slurry with high resistance against aggressive ground moisture and pressurized water. Used in combination with KÖSTER KD 2 Blitz Powder and KÖSTER KD 3 Sealer for the negative side waterproofing against pressurized water. For the waterproofing of mineral surfaces such as internal basement waterproofing.

Consumption: approx. 1.5 - 2.5 kg/sqm

### Article No.

W 211 001

### Packaging

1 kg

W 211 006

6 kg

W 211 015

15 kg

**KÖSTER KD System:**  
W 211 + W 512 + W 313

## KÖSTER KD System



System package for the negative side waterproofing of mineral surfaces against pressurized water such as internal basement waterproofing. The KÖSTER KD System stops flowing water and forms a permanent waterproofing layer on masonry and concrete. All components of the KÖSTER KD System in one package (1 kg KD 1 Slurry, 1 kg KD 2 Blitz powder, 0,5 kg KD 3 Hardener).

Consumption: for 0.5 - 1 sqm

W 219 001

Paket

## KÖSTER CFR 1



Hot-applied, highly elastic rubber-bitumen sealing compound for waterproofing against pressurized water. It can also be used as a hot-applied joint grout. Ductility up to 2000 %. For the crack bridging waterproofing of all mineral, wooden and metal substrates.

Consumption: approx. 1 kg/sqm per mm layer thickness

W 220 023

23 kg

## KÖSTER NB 1 Grey



**Crystallizing mineral waterproofing against pressurized water (> 13 bar).**  
Suitable for positive and negative side waterproofing. A waterproofing made of KÖSTER NB 1 Grey possesses excellent pressure and abrasion resistance.  
**Fields of application:** Area waterproofing in new construction and restoration, e.g. waterproofing of basements and tanks. For the waterproofing of drinking water environments (tested according to DVGW and KTW guidelines). CE certification.



### Consumption

approx. 2 - 4 kg / m<sup>2</sup>

### Article No.

W 221 025

### Packaging

25 kg



Internal basement waterproofing



Civil engineering or urban planning



Infrastructure



Water tanks

## KÖSTER NB 2 White



For abrasion resistant waterproofing of visible concrete and masonry structures which are in danger of cracking. KÖSTER NB 2 White is a white, 2-component system, bridges cracks up to 0.4 mm and is resistant to pressurized water. **Fields of application:** waterproofing of balconies, terraces and the crack bridging waterproofing of concrete elements, also under tiles. Radonproof.

Consumption: approx. 3.6 - 4.5 kg/sqm

### Article No.

W 222 025

### Packaging

25 kg

## KÖSTER NB 1 Fast



Fast setting, deep crystallizing mineral surface coating which is resistant against pressurized water. It is suitable for the fast positive or negative side waterproofing of masonry and concrete, e.g. in basements or water tanks.

Consumption: approx. 3 - 4 kg/sqm

### Article No.

W 223 025

### Packaging

25 kg

## KÖSTER Restoration Slurry



Surface coating, resistant to sulphates and pressurized water. The material possesses a high mechanical strength and is resistant to chemical stresses and abrasion. For internal and external basement waterproofing.

Consumption: approx. 2 - 4 kg/sqm

### Article No.

W 225 025

### Packaging

25 kg

## KÖSTER NB Elastic Grey



For abrasion resistant waterproofing of concrete and masonry structures which are in danger of cracking. KÖSTER NB Elastic Grey is a 2-component system, bridges cracks up to 2 mm and is resistant to pressurized water. Fields of application: waterproofing of balconies, terraces and crack bridging waterproofing of concrete elements, also under tiles.

Consumption: approx. 3.6 - 4.5 kg/sqm

W 233 033      33 kg

## KÖSTER NB Elastic White



For abrasion resistant waterproofing of visible concrete and masonry structures which are in danger of cracking. KÖSTER NB Elastic White is a white, 2-component system, bridges cracks up to 0.4 mm and is resistant to pressurized water. Fields of application: waterproofing of balconies, terraces and the crack bridging waterproofing of concrete elements, also under tiles. Radonproof.

Consumption: approx. 3.6 - 4.5 kg/sqm

W 234 033      33 kg

## KÖSTER NB 4000



Bitumen free, polymer modified, mineral hybrid coating for the internal and external waterproofing of building structures.

NB 4000 cures reliably and quickly also in difficult ambient conditions. The material can be applied from + 2° C upwards, is resistant to rain after approx. 2 hours and can be exposed to pressurized water after 24 hours of curing time. KÖSTER NB 4000 is elastic, crack bridging and suitable for slightly moist and bituminous substrates. Fields of application: basements, foundation plates, masonry and the repair of mineral waterproofing layers.



### Consumption

approx. 3,1 - 4,2 kg / m<sup>2</sup>

### Article No.

W 236 020

### Packaging

20 kg



External basement waterproofing



Moist substrates



Precast concrete production



Base waterproofing

## KÖSTER KBE Liquid Film



Highly elastic, solvent-free bitumen / rubber based waterproofing. For high quality external waterproofing of construction members in ground contact, such as basements. Also suitable for waterproofing under a protective screed (so called sandwich waterproofing), crack bridging waterproofing of concrete floors, flat roofs and much more. Elongation: > 900 %.

Consumption: approx. 1 - 2.5 kg/sqm depending on the field of application

W 245 006      6 kg

W 245 024      24 kg

**KÖSTER**  
**Bikuthan 2C**


Solvent-free, crack-bridging, stable, two-component, polymer modified bitumen thick film sealant (PMBC) with polystyrene light fillers in accordance with DIN 18 195. Approved by the German building authorities and CE certified according to DIN EN 15814. For waterproofing construction members in ground contact such as basements against pressurized water.

Consumption: approx. 4 - 5 l/sqm

Article No.      Packaging

W 250 028      28 l

**KÖSTER**  
**Bikuthan 1C**


Single component, crack bridging, solvent-free, stable, polymer modified bitumen thick film sealant (PMBC) with polystyrene light fillers according to DIN 18 195. CE certified according to DIN EN 15814. Suitable for spray application. Resistant against pressurized water. For waterproofing construction members in ground contact such as basements.

Consumption: approx. 4 - 5 l/sqm

W 251 030      30 l

**KÖSTER**  
**Deuxan 2C**


**Polymer modified, fibrated bitumen thick film sealant (PMBC) for the secure waterproofing of building structures accordance to DIN 18 195.**

The material is two-component, crack bridging up to 2mm and resistant to pressurized water. KÖSTER Deuxan 2C is approved by the German building authorities and CE certified according to DIN EN 15814. Radonproof. Fields of application: External basement waterproofing, foundation plates, balconies and terraces, wet room waterproofing.


**Consumption**

approx. 4 - 6 kg / m<sup>2</sup>

**Article No.**

W 252 032

**Packaging**

32 kg



External basement waterproofing



Floor slab waterproofing



Waterproofing against Radon



Can be spray applied

**KÖSTER**  
**Deuxan Professional**


Two-component, elastic, fibrated, polymer modified bitumen thick film sealant (PMBC) for the secure waterproofing of buildings in accordance with DIN 18 195 e. g. for basements. Specially designed for spray application e. g. with the KÖSTER Peristaltic Pump and therefore suitable for professionals.

Consumption: approx. 4 - 6 kg/sqm

W 256 032      32 kg

**KÖSTER**  
**Anti Soot**



Permanent, deeply penetrating primer to prevent and combat sooting in chimneys. Sooting in the substrate will be enclosed and damages to subsequent plasters are avoided. The primer is resistant to negative side moisture and to a large extent impermeable to water vapor.

Consumption: approx. 0.5-0.8 kg/sqm

W 285 001 1 kg

**KÖSTER**  
**KD 3 Sealer**



Low viscosity silicifying liquid. The active ingredients penetrate deeply into the substrate and form water insoluble compounds. The pores are plugged and permanently waterproofed through continuing crystalization. Used in combination with KÖSTER KD 1 Base and KÖSTER KD 2 Blitz Powder for the negative side waterproofing of mineral surfaces such as internal basement waterproofing against pressurized water.

Consumption: approx. 0.5 kg/sqm

W 313 006 6 kg  
W 313 012 12 kg  
W 313 500 0,5 kg

**KÖSTER KD System:**  
W 211 + W 512 + W 313

**KÖSTER**  
**BE Rainproof**



Liquid accelerator for all bituminous coatings. Forms a water-repellent protective film on bitumen coatings.

Consumption: approx. 0.2 kg/sqm

W 330 005 5 kg

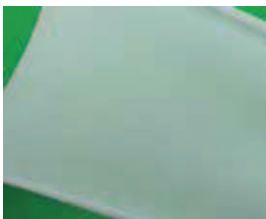
**KÖSTER**  
**Glass Fiber Mesh**



Highly tear resistant mesh for the reinforcement of waterproofing layers especially in the case of pressurized water, areas in danger of cracking as well as connections, wall / floor junctions and fillets. Resistant to dislocation, alkalis, plasticizer-free. Particularly suitable for: KÖSTER KBE Liquid Film, KÖSTER Bikuthan 1C and KÖSTER Bikuthan 2C, KÖSTER Deuxan 2C and KÖSTER Deuxan Professional.

W 411 033 100 m  
W 411 100 100 m²

**KÖSTER**  
**Flex Fabric**



Highly flexible, tear-resistant fabric for the reinforcement of thin-layer waterproofing. Especially in areas prone to cracking, penetrations or wall / floor connections. Finely woven, synthetic. Particularly suitable for: KÖSTER Dachflex, KÖSTER NB Elastic Grey, KÖSTER NB Elastic White, KÖSTER 21 and KÖSTER BD 50.

W 450 100 50 m²

## KÖSTER BS 1 Bitumen Paste



Fibrated, solvent containing bitumen sealing compound with a permanent plasticizer. Suitable for the repair of bituminous waterproofing and for sealing the edges of KÖSTER KSK membranes. Fields of application: wall connections, edges of basement waterproofings or floor waterproofings, general repairs of PMBC waterproofings.

Article No. Packaging

W 501 005 5 l

## KÖSTER KD 2 Blitz



**Active leakages can be stopped within a few seconds!**

Highly reactive powder with an extremely short setting time. Used in combination with KÖSTER KD 1 Base and KÖSTER KD 3 Sealer for the negative side waterproofing of mineral surfaces such as internal basement waterproofing against pressurized water.

**KÖSTER KD System:  
W 211 + W 512 + W 313**



### Consumption

approx. 1 - 2 kg / m<sup>2</sup>

### Article No.

### Packaging

W 512 001	1 kg
W 512 006	6 kg
W 512 015	15 kg



Active leaks ...



... stopped ...



... in seconds!

## KÖSTER Repair Mortar



Hydrophobic mortar, resistant against pressurized water, with special bonding agents. Suitable for fillets, repairs and as a barrier-plaster. Can be mixed with KÖSTER SB Bonding Emulsion to form a PCC Mortar.

W 530 025 25 kg

Consumption: approx. 1.8 kg/ltr void

## KÖSTER Repair Mortar Plus



Slightly expanding, hydrophobic, fast setting repair mortar, resistant to pressurized water. Can be mixed with KÖSTER SB Bonding Emulsion to form a PCC Mortar.

W 532 025 25 kg

Consumption: approx. 1.8 kg/ltr void

**KÖSTER**  
**WP Mortar**



Mineral, trowel applicable, fast setting mortar for waterproof fillets and re-profiling surfaces. KÖSTER WP Mortar is resistant to pressurized water when applied in a layer thickness of 4 mm. It is characterized by high pressure and abrasion resistance, high chemical resistance, and resistant against salts in the substrate. Approved for drinking water surroundings.

Consumption: approx. 1.8 kg/ltr void

W 534 025 25 kg

**KÖSTER**  
**Waterstop**



Fast setting, slightly expanding plug and repair mortar. Suitable to permanently plug active leaks. Creates a strong bond between existing substrate and mortar thus permanent waterproofing is achieved.

Consumption: approx. 2 kg/l void

W 540 015 15 kg

**KÖSTER**  
**SB Bonding Emulsion**



Multi-purpose liquid plasticizing dispersion for use with all cement based mortars, plasters and sealing slurries. Solvent free, plasticizer and filler free. The product provides a plastifying effect, increases the elasticity and reduces the water absorption of mineral systems. KÖSTER SB Bonding Emulsion is waterproof after full cure. Fields of application: e. g. as an additive for waterproofing with NB 1 Grey.

Consumption: approx. 5 - 30 kg / 100 l mixing water

W 710 005 5 kg  
W 710 010 10 kg  
W 710 030 30 kg

**KÖSTER**  
**NB 1 Flex**



Ready-mixed liquid for KÖSTER NB 1 Grey and KÖSTER NB 2 White. The latex based dispersion KÖSTER NB 1 Flex has a plastifying effect, improves the adhesion to the substrate and prevents the premature drying out of the fresh slurry.

Consumption: approx. 8 kg for 25 kg NB 1 Grey and NB 2 White

W 721 008 8 kg

**KÖSTER**  
**Fix-Tape 10 Alu**



Self-adhesive sealing tape for the waterproofing of: e.g. wall / floor junctions, wall and roof penetrations or for the repair of leaking gutters and downspouts. KÖSTER Fix-Tape 10 ALU is 1 mm thick, rubber / bitumen based with an aluminium foil laminated on the top-side. Thickness 1 mm, available in 50 mm, 100 mm and 150 mm width.

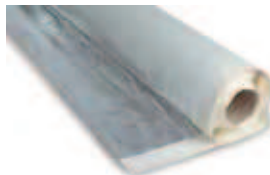
W 810 005 AL 10 m  
W 810 010 AL 10 m  
W 810 150 AL 10 m

**KÖSTER**  
**Fix-Tape 10 SY**


Cold applied self adhesive rubber / bitumen based waterproofing tape for sealing facade areas and windproofing window connections. Applicable between + 5 °C and + 30 °C. Highly flexible, crack bridging immediately water and rainproof. Double laminated with a highly tear resistant polyethylene foil. Material thickness 1 mm, available in 150 mm, 250 mm and 350 mm width.

Article No. Packaging

W 810 015 20 m  
 W 810 025 20 m  
 W 810 035 20 m

**KÖSTER**  
**KSK Alu 15**


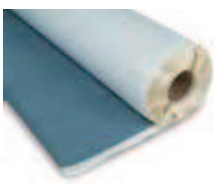
Cold applied self-adhesive rubber / bitumen sealing membrane for the waterproofing of small, weather exposed areas such as roofs, garages or balconies. Applicable between + 12 °C and + 35 °C. KÖSTER KSK ALU 15 is laminated with a reinforced aluminium foil on the top side. It does not require hot air or propane gas welding for its application, is vapor tight, waterproof, weather and UV resistant. Measurements: 1.5 mm x 0.96 m x 20 m.

W 815 019 AL 19.2 m<sup>2</sup>

**KÖSTER**  
**KSK SY 15**


Cold applied self-adhesive rubber / bitumen waterproofing membrane according to DIN 18 195. Suitable for application from + 5 °C to + 30 °C. Fields of application: Basements, foundation plates, balconies, terraces and polystyrene elements. KÖSTER KSK SY 15 membranes do not require hot air or propane gas welding for application. It is highly flexible, crack bridging, immediately waterproof and resistant to driving rain. Radonproof. With a double laminated, highly tear-resistant polyethylene foil on top. Measurements: 1.5 mm x 1.05 m x 20 m.

W 815 105 21 m<sup>2</sup>

**KÖSTER**  
**KSK DS 15**


Double sided cold applied self-adhesive synthetic / bitumen sealing membrane for the creation of compound waterproofings. The KÖSTER KSK DS 15 membrane does not require hot air or propane gas welding for its application. Due to its great flexibility it allows simple application even to difficult details. Measurements: 1.5 mm x 1.05 m x 20 m.

W 815 105 DS 21 m<sup>2</sup>

**KÖSTER**  
**Fix-Tape 15 DS**


Double sided cold applied self-adhesive rubber / bitumen sealing tape for the waterproofing of wall connections, roof penetrations and insulation or vapor barriers. Thickness 1.5 mm, available in 15 mm, 40 mm, 200 mm.

W 815 001 DS 20 m  
 W 815 004 DS 20 m  
 W 815 020 DS 20 m

**KÖSTER**  
**Fix-Tape 15 SY**



Cold applied self adhesive rubber / bitumen based waterproofing tape for sealing facade areas and windproofing window connections. Applicable between + 5 °C and + 30 °C. Highly flexible, crack bridging immediately water and rainproof. Double laminated with a highly tear resistant polyethylene foil. Material thickness 1.5 mm, available in 200 mm width.

W 815 020 20 m

**KÖSTER**  
**Butyl Fix-Tape Fleece**



Cold applied self-adhesive tape for sealing the upper edges of KÖSTER KSK sealing membranes. KÖSTER Butyl Fix-Tape Fleece can be plastered over. KÖSTER Butyl Fix-Tape Fleece 1.5 mm thick with a separating backing paper on the bottom side. The material is highly tear resistant, immediately waterproof and can be plastered over due to its fleece-laminated upper side. Priming before application of the KÖSTER Butyl Fix-Tape Fleece is not necessary.

W 815 015 F 10 m

**KÖSTER**  
**SD Protection and Drainage Sheet 3 - 400**



Three layer, rot proof, stable, drainage and backfill protection with gliding layer for bituminous and mineral waterproofings. Measurements: b: 2 m, l: 15 m.

W 901 030 30 m²

**KÖSTER**  
**Rubber Hand Roller**



For the safe application of KÖSTER KSK waterproofing membranes.

W 911 001 Piece

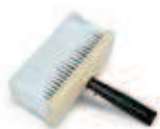
**KÖSTER**  
**Brush for Liquids**



Special brush for the application of liquid materials, e.g. KÖSTER Dachflex, KÖSTER KD 3.

W 912 001 Piece

## KÖSTER Brush for Slurries



Special brush with wavy bristles for the application of materials with a paste-like consistency, e. g. KÖSTER NB Sealing Slurries, KÖSTER KD 1.

Article No.

Packaging

W 913 001

Piece

## KÖSTER Peristaltic Pump



Electrical pump for spraying liquid and pasty, mineral, water, or bitumen based materials such as 1 and 2 component polymer modified bitumen thick film sealants, elastic and rigid waterproofing slurries, liquid membranes, and mortars.

W 978 001

Piece

## KÖSTER Service Box



Spare part set for the KÖSTER Peristaltic Pump.

W 979 001

Piece

## KÖSTER Roofing Nails



For mechanically fixing cold applied self-adhesive waterproofing membranes.

W 981 001

400 Pieces  
per  
package

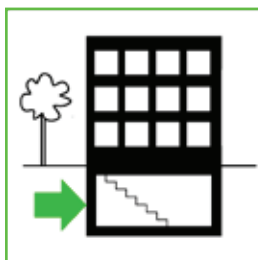
## GOOD TO KNOW: Protection of the waterproofing layer

Backfilling of the construction pit and settlement of the ground over time are frequent sources of damage to the waterproofing layer. Usually the material used to backfill the construction pit does not consist of clean sand but contains coarse aggregates. During backfilling, these aggregates can be pushed into the waterproofing layer and damage it. As a result, the installation of a protective layer is essential. Protective layers ideally combine three functions: mechanical protection, drainage, and a decoupling or gliding layer. The KÖSTER SD Sheet 3-400 consists of three layers. The mechanical protection is provided by the main layer, a HDPE dimple sheet. Facing the soil, a fleece is attached to the dimples of the dimple sheet in order to maintain the drainage function. The third layer on the backside of the dimple sheet facing the waterproofing layer is a LDPE foil. This gliding layer between dimple sheet and waterproofing layer prevents damages due to backfilling or settling of the ground.



KÖSTER SD Protection and Drainage Sheet 3 - 400

## External basement waterproofing



Wet basements can not be fully used and might endanger the integrity of the whole building. We offer a number of different methods for making basements permanently waterproof. From the outside the entire external wall is protected from water penetration by treating with polymer-modified thick film sealants, mineral sealing slurries or a cold self-adhesive waterproofing membrane. In repair cases the external waterproofing can be installed even from the inside of the basement. This method is called "curtain injection".

## External basement waterproofing with bitumen based waterproofing systems

<p><b>Primer</b></p> <p>(M 111) KÖSTER Polysil TG 500</p> <p><b>Alternatives</b></p> <p>(W 110) KÖSTER Bitumen Primer</p>		<p><b>Protection of the waterproofing layer</b></p>
		<p>(W 901) KÖSTER Protection and Drainage Sheet 3-400</p>
<p><b>Waterproofing pipe penetrations</b></p>		<p><b>Waterproofing layer</b></p>
<p>(J 250) KÖSTER KB-Flex 200</p>		<p>(W 252) KÖSTER Deuxan 2C</p> <p><b>Alternatives</b></p> <p>(W 256) KÖSTER Deuxan Professional</p> <p>(W 250) KÖSTER Bikuthan 2C</p> <p>(W 251) KÖSTER Bikuthan 1C</p> <p>(W 245) KÖSTER KBE Liquid Film</p>
<p><b>Preparing wall/floor junctions</b></p>		<p><b>Reinforcement layer</b></p> <p>(W 411) KÖSTER Glass Fiber Mesh</p> <p><b>Installing fillets</b></p>
<p>(W 221) KÖSTER NB 1 Grey</p> <p><b>Additive</b></p> <p>(W 721) KÖSTER NB 1 Flex</p>	<p>(W 534) KÖSTER WP Mortar</p>	

The use of bituminous products is a standard solution for the positive side waterproofing of basements. The systems are applied in a paste-like form and are therefore seamless. They are easy and safe to use and have crack bridging properties. On clean, solid, stable, gypsum free mineral substrates KÖSTER Polysil TG 500 is applied as a primer. This immobilizes salts present in the substrate and the substrate is solidified. When preparing to waterproof on top of old bituminous coatings KÖSTER Bitumen Primer is used.

Pipe and cable penetrations are sealed with the permanently plastic putty KÖSTER KB-Flex 200 and protected by a layer of KÖSTER KB-Fix 5. Alternatively these areas can be connected with a fillet of the respective thick film sealant or fitted with flanges.

To protect against water creeping behind the lower waterproofing connections KÖSTER NB 1 Grey mixed with KÖSTER NB 1 Flex is applied first.

To prevent stresses in the waterproofing, rounded

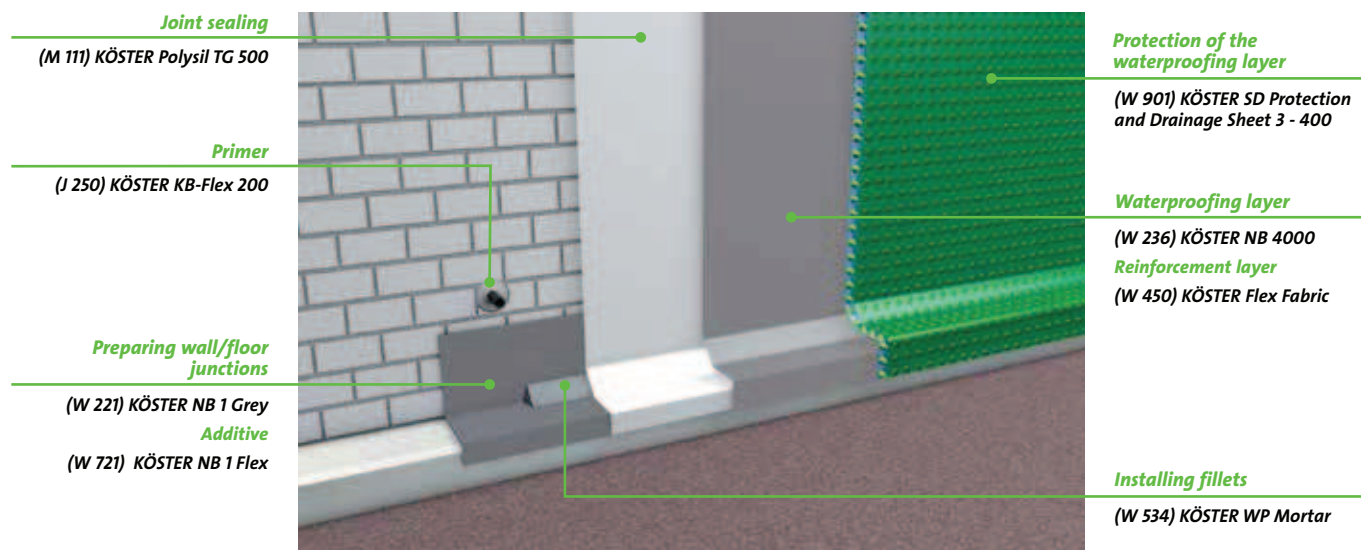
fillets are installed in the wall / floor junctions.

The actual area waterproofing is achieved using KÖSTER Deuxan 2C in two layers applied by trowel. KÖSTER Deuxan Professional can be spray applied. To make manual application easier, use KÖSTER Bikuthan 1C or 2C. The addition of KÖSTER Glass Fiber Mesh is recommended in all thick film sealants and all applications. This allows for better control of the coating thickness and safely absorbs movement in the building.

Before backfilling the positive side waterproofing must be protected from mechanical damages and settling with KÖSTER SD Protection and Drainage Sheet.

Always adhere to the specifications in the respective Technical Data Sheets.

## External basement waterproofing with mineral based waterproofing systems



Mineral sealing slurries are especially robust waterproofing systems with extremely good adhesion to mineral surfaces. They are not affected by moist surfaces and become an integral part of the building structure on which they were applied. Mineral sealing slurries are paste-like and are applied seamlessly to the building element being waterproofed. They are easy and safe to apply and can be installed as rigid or crack bridging systems.

On clean, solid, stable, gypsum free mineral substrates KÖSTER Polysil TG 500 is applied as a primer. This immobilizes salts present in the substrate and the substrate is solidified.

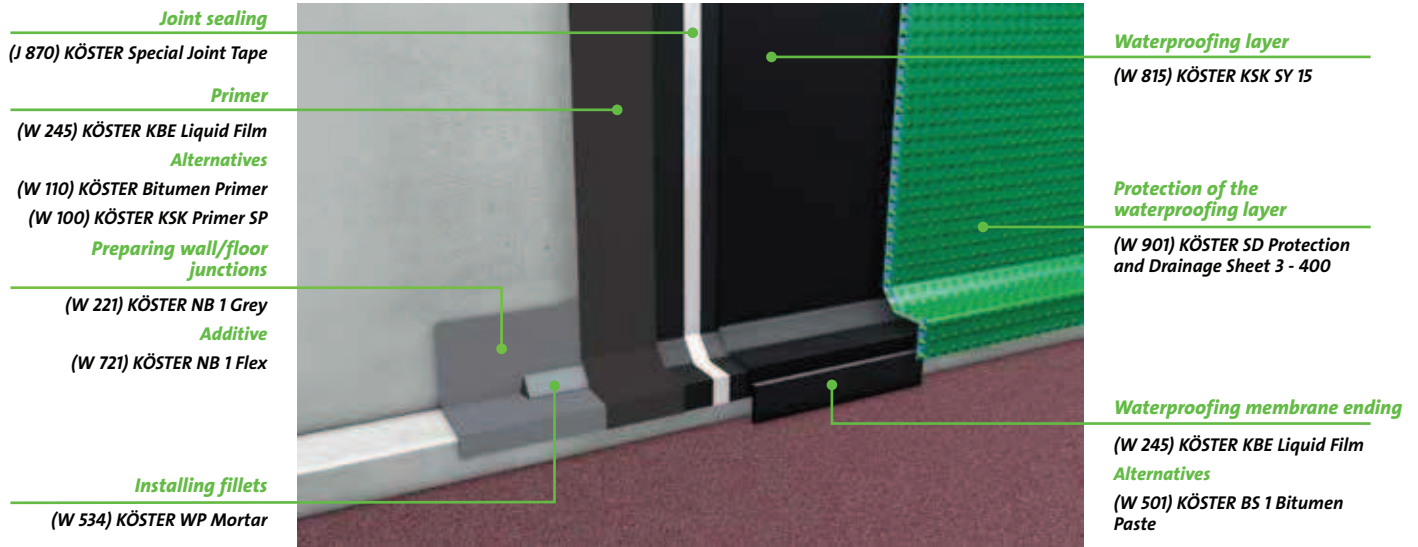
Pipe penetrations are waterproofed using KÖSTER KB-Flex 200 and sealed with KÖSTER KB-Fix 5. Alternatively these areas can be attached to the waterproofing using proper sleeves or flanges.

The actual area waterproofing is achieved using KÖSTER NB Elastic Grey or KÖSTER NB Elastic White in two layers. The installation of KÖSTER Flex Fabric is recommended between the KÖSTER NB Elastic layers to achieve an especially visco-plastic waterproofing layer. In areas particularly in danger of water creeping behind the waterproofing such as wall-floor junctions, a substrate preparation with KÖSTER NB 1 Grey mixed with KÖSTER NB 1 Flex is applied. To avoid stresses in the elastic waterproofing, rounded fillets made of KÖSTER Repair Mortar are installed in interior corners.

Before backfilling the waterproofing is protected from mechanical damages and settling with KÖSTER SD Protection and Drainage Sheet.

Always adhere to the specifications in the respective Technical Data Sheets.

## External basement waterproofing with cold self-adhesive waterproofing membranes



Exterior basement waterproofing with KÖSTER KSK cold applied, self-adhesive waterproofing membranes is fast, clean, and easy. No drying time, instantly watertight, with a tight control of consumption. Apply a primer coat of KÖSTER KBE Liquid Film on clean, solid substrates. In temperatures down to  $-10^{\circ}\text{C}$  use water-free KÖSTER KSK Primer SP. Pipe penetrations are sealed using flanges cut to size from KÖSTER KSK Membranes. In areas especially in danger of water creeping behind the waterproofing such as wall-floor junctions, a substrate preparation with KÖSTER NB 1 Grey mixed with KÖSTER NB 1 Flex is applied. To avoid stresses in the elastic waterproofing, rounded fillets made of KÖSTER Repair Mortar are installed in interior corners.

The actual area waterproofing is generally done with KÖSTER KSK SY 15. It is applied crease free to the substrate. The membranes are overlapped 10 cm.

Corners and connections are made according to the directions on the packaging and according to the Technical Data Sheets, and these areas are covered with KÖSTER KBE Liquid Film. On vertical areas the top edge is mechanically fastened and these fasteners are also coated with KÖSTER KBE Liquid Film. In temperatures down to  $-10^{\circ}\text{C}$  use KÖSTER KSK AW 15 instead of KÖSTER KSK SY 15. In this case the overlapped edges, corner details and mechanical fasteners are coated with KÖSTER BS 1 Bitumen Paste.

Before backfilling the waterproofing is protected from mechanical damage and settling with KÖSTER SD Protection and Drainage Sheet.

Always adhere to the specifications in the respective Technical Data Sheets.

## External basement waterproofing with curtain injection



**Pump**

(IN 928) KÖSTER Gel Pump

**Installing the packers**

(IN 927) KÖSTER Distributor Lance

**Alternatives**

(IN 923) KÖSTER Injection Lance

(IN 924) KÖSTER Impact Packer

18 plus

**Waterproofing layer**

(IN 285) KÖSTER PUR Gel

Exterior basement waterproofing from inside the building? In the case of renovation it is not always possible to expose the exterior walls through excavation. For example, where the area to be excavated is built upon, traffic concerns impede the excavation, or the economic cost of excavation is deemed too high. In this case you would first think of an internal (negative side) basement waterproofing, but in some cases, such as in historical buildings or buildings with special architectural requirements, this may not be desirable.

In these cases a curtain injection with KÖSTER PUR Gel is possible: The resin is injected through the wall from the inside to the outside.

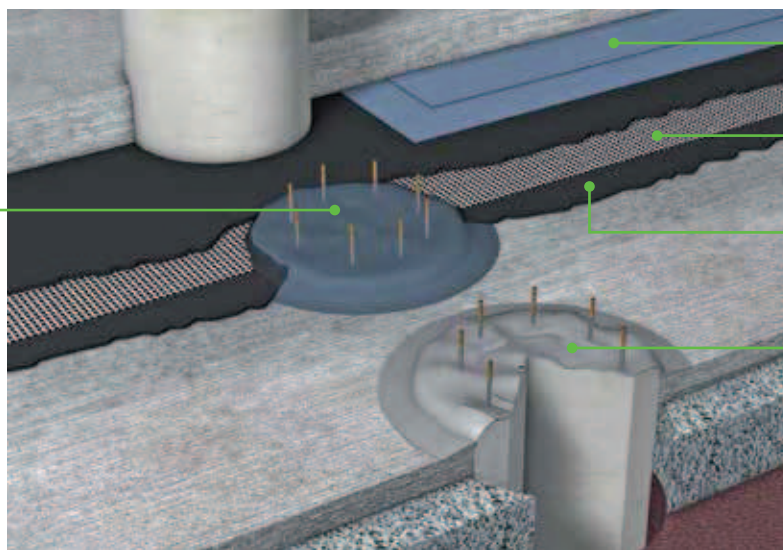
The resin reacts with water and binds it, resulting in a waterproof, elastic solid. The injection is carried out with a special two-component pump, KÖSTER Gel Pump, and through patented KÖSTER Distributor Lances. The injection material is dispersed on the exterior wall and in a short time reacts to create a waterproofing layer. An alternatives method is injecting KÖSTER PUR Gel into the building member itself. This so-called "area injection" is possible in porous or hollow building materials. In this case the KÖSTER PUR Gel also reacts with any water present to form a waterproof, elastic solid.

Always adhere to the specifications in the respective Technical Data Sheets.

## Waterproofing of pile heads

### Waterproofing of pile heads

(W 221) KÖSTER NB 1 Grey



#### Gliding Layer

Handelsübliche PE-Folie

#### Embedded Mesh

(W 411) KÖSTER Glass Fiber Mesh

#### Waterproofing layer

(W 252) KÖSTER Deuxan 2C

#### Reprofiling

(W 530) KÖSTER Repair Mortar  
+ (C 155/ C 255) KÖSTER Z1 / Z2

Damage in existing buildings is often caused by leaking pile foundations. Water can enter the building through the construction joints or it makes its way along the reinforcement steel. The waterproofing of pile heads has to withstand heavy loads from the whole building and it needs to be easily connected to the area waterproofing.

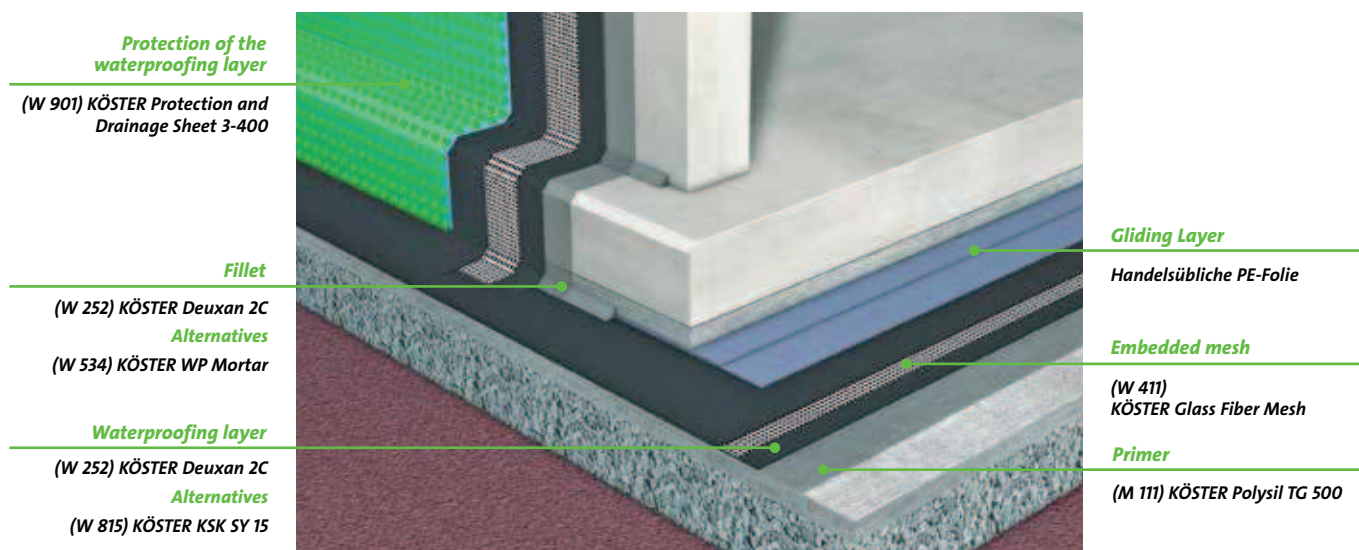
Initially all non-load bearing materials and separating substances have to be removed from the surface of the pile head. After that, the surface has to be levelled and reprofiled with KÖSTER Repair Mortar. This re-profiling must also include the installation of a fillet adjacent to the pile head.

KÖSTER NB 1 Grey is used to waterproof the pile head.

The waterproofing on top of the blinding layer is made with KÖSTER Deuxan 2C. Embed KÖSTER Glass Fiber Mesh into the fresh first layer. Before pouring the concrete for the floor slab a gliding layer consisting of two layers of customary PE-Foil is applied between the waterproofing and the concrete. Protect the waterproofing layer from mechanical damage when continuing with the application.

Always adhere to the specifications in the respective Technical Data Sheets.

## Waterproofing under the foundation plate



A complete waterproofing system in a new construction includes waterproofing the floor slab. Compared to the application on top of the concrete slab, the installation of the waterproofing layer underneath the foundation plate keeps the foundation dry and the concrete provides a better thermal insulation.

First a primer such as KÖSTER Polysil TG 500 is applied to the clean, sound and solid substrate. KÖSTER Polysil TG 500 is a standard primer that locks existing salts into the substrate, hardens the substrate and provides a better bond between the waterproofing and the substrate.

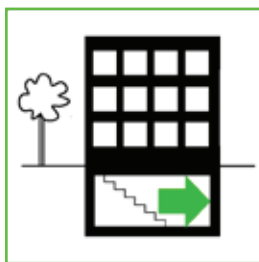
The main area waterproofing made of KÖSTER Deuxan 2C, is applied in two layers with KÖSTER Glass Fiber Mesh embedded in the fresh first layer.

It is generally recommended to embed the KÖSTER Glass Fiber Mesh between layers as it allows for easy control of the layer thickness and absorbs the forces created by movement in the building.

Before pouring the foundation plate, PE-Foil is installed in two layers to act as a gliding layer between the waterproofing material and the concrete. The waterproofing layer needs to be protected, e.g. by a layer of unreinforced concrete. The vertical waterproofing is connected to the side waterproofing layer underneath the foundation plate. A fillet made from KÖSTER Deuxan 2C is to be installed in the connection area or KÖSTER KSK Triangular Ribbon.

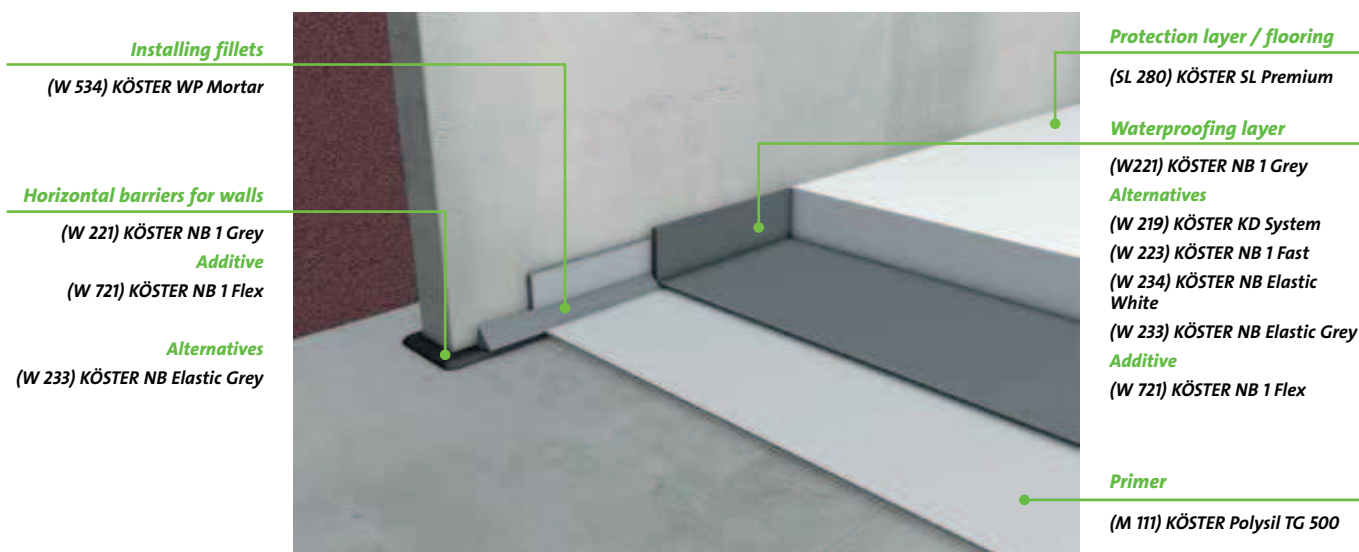
Always adhere to the specifications in the respective Technical Data Sheets.

## Internal basement waterproofing



In a repair situation the basement can be waterproofed from the inside without excavating the soil around the building. This means that the basement is permanently waterproofed without the necessity of doing any sort of earthwork. This type of waterproofing is possible with the KÖSTER systems even when the wall has active leakages. Subsequently a diffusion open restoration plaster is applied after successful waterproofing.

### Internal basement waterproofing on foundation plate with mineral systems



Mineral waterproofing systems have the advantage of excellent bonding properties of the waterproofing material to mineral substrates, the bond between the individual waterproofing layers is excellent too. The longevity of such systems is ideally the lifetime of the building.

To avoid moisture rising through the wall due to capillary action, it is necessary to install a horizontal barrier beneath the wall made from KÖSTER NB 1 Grey (mixed with KÖSTER NB 1 Flex) or the crack bridging material KÖSTER NB Elastic.

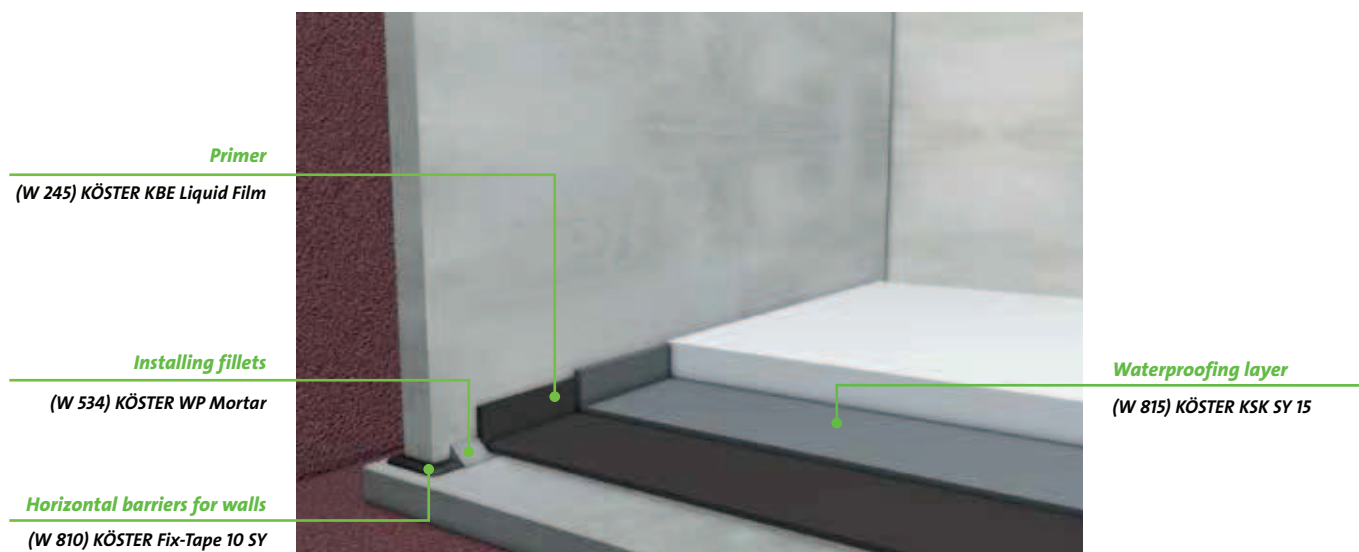
To harden the substrate the bottom slab is primed with KÖSTER Polysil TG 500. At the wall floor junction a fillet made from KÖSTER Repair Mortar plus is installed to prevent stresses in the subsequent waterproofing layers.

The area waterproofing is normally achieved with KÖSTER NB 1 Grey mixed with KÖSTER NB 1 Flex. For an extra fast application KÖSTER NB 1 "Fast" is the product of choice. In case of pressurized water the waterproofing needs to be done with the KÖSTER KD System. KÖSTER SL Premium is ideal for protecting the surface.

Alternatively the crack bridging waterproofing products KÖSTER NB Elastic Grey, KÖSTER NB Elastic White or KÖSTER NB Elastic 1C White can be used to waterproof the floor slab.

Always adhere to the specifications in the respective Technical Data Sheets.

## Internal basement waterproofing on the foundation plate with cold-adhesive waterproofing membranes



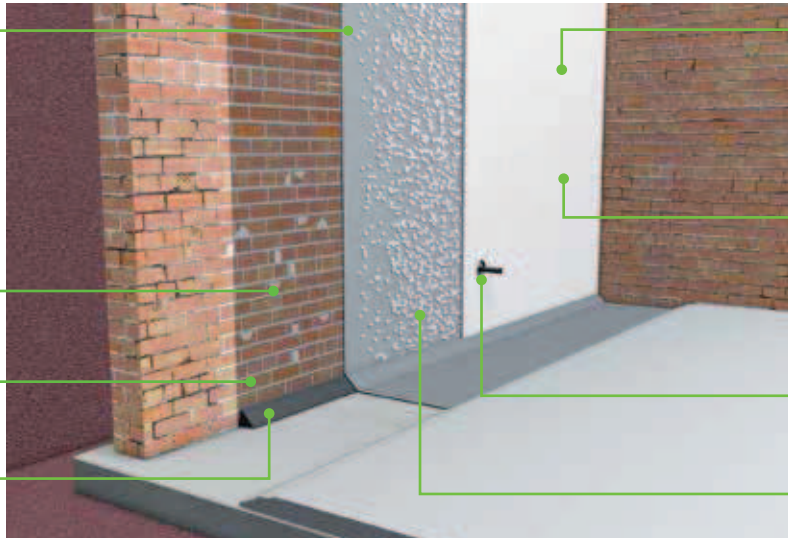
Fast, easy application without long waiting times can be achieved by waterproofing the floor slab with KÖSTER KSK cold applied, self-adhesive waterproofing membranes.

To avoid rising moisture, it is necessary to install a horizontal barrier underneath the wall with KÖSTER Fix-Tape AW 10 Elastic. At the wall floor junction a filled made from KÖSTER Repair Mortar plus has to be installed to prevent stresses in the subsequent waterproofing layers.

The priming is done with the solvent free KÖSTER KSK Primer BL. Standardly the primed surface of the floor slab is waterproofed with the cold applied, self adhesive waterproofing membrane KÖSTER KSK SY 15. Overlap the joints 10 cm. The applied KÖSTER KSK Membranes have to be protected from mechanical damage as work continues. It also needs to be connected to the vertical waterproofing of the adjacent walls.

Always adhere to the specifications in the respective Technical Data Sheets.

## Internal basement waterproofing in case of ground moisture non pressurised and pressurised water

<b>Waterproofing layer</b> (W 221) KÖSTER NB 1 Grey <b>Alternatives</b> (W 223) KÖSTER NB 1 Fast (W 222) KÖSTER NB 2 White <b>Additive</b> (W 721) KÖSTER NB 1 Flex		<b>Plaster</b> (M 662) KÖSTER Restoration Plaster 2 White <b>Alternatives</b> (M 672), (M 661), (M 664), (M 665), (M 663) <b>Surface finishing</b>
<b>Levelling the surface</b> (W 534) KÖSTER WP Mortar		<b>(M 369) KÖSTER Restoration Plaster Coat</b> <b>Alternatives</b> (P 260) KÖSTER Silicone Paint White
<b>Primer</b> (M 111) KÖSTER Polysil TG 500		<b>Waterproofing pipe penetrations</b> (J 250) KÖSTER KB-Flex 200 + (C 515) KÖSTER KB-FIX 5
<b>Installing fillets</b> (W 534) KÖSTER WP Mortar		<b>Plaster key</b> KÖSTER Restoration Plaster + (W 710) KÖSTER SB Bonding Emulsion

Retroactive waterproofing in existing buildings needs to be done with mineral waterproofing systems. They have excellent bonding characteristics to mineral surfaces and also won't detach from wet and moist substrates.

The material is applied to substrates that have to be sound and solid as well as free from bond inhibiting agents. Older plaster coats have to be removed and joints raked out and all loose particles have to be removed. As primer, KÖSTER Polysil TG 500 is used. It hardens the substrate as well as reduces the mobility of salts. Masonry repair and the installation of a fillet at the wall-floor junction is done with KÖSTER Repair Mortar Plus.

KÖSTER NB 1 Grey is used as the waterproofing layer. For a faster installation use KÖSTER NB 1 "Fast". To harden the material, KÖSTER Polysil TG 500 is sprayed on top of the slurry. To get a lighter surface finish use KÖSTER NB 2 White for the final coating.

Pipe penetrations are waterproofed using KÖSTER KB-Flex 200 and sealed with KÖSTER KB-Fix 5.

In the case of damage to basement walls caused

by moisture generally KÖSTER Restoration Plaster should be applied. KÖSTER Restoration Plasters are specially designed for the restoration of masonry with high salt and moisture contents. KÖSTER Restoration Plasters help to dry out the wall and absorb remaining salts. They don't contain lime or gypsum, are open to water vapor diffusion and create a healthy and comfortable room climate.

Before the application of the main plaster coat, a plaster key made from the chosen KÖSTER Restoration Plaster mixed with KÖSTER SB-Bonding Emulsion is applied to provide a larger surface area and ensure an optimal bond to the substrate. KÖSTER Restoration Plasters are available in different varieties (grey, white, fast and light). KÖSTER Restoration Plaster 2 White is often used in older buildings without subsequent painting. KÖSTER Plaster Coat creates a very smooth surface and can be applied when desired to meet architectural goals. KÖSTER Restoration Plasters can only be painted over with breathable (open to vapor diffusion) paints such as KÖSTER Silicon Paint White or KÖSTER MF1.

Always adhere to the specifications in the respective Technical Data Sheets.

## Internal basement waterproofing in case of flowing water

<b>Waterproofing layer</b> <b>KÖSTER KD System</b> (W 211) KÖSTER KD 1 Base (W 512) KÖSTER KD 2 Blitz (W 313) KÖSTER KD 3 Sealer		<b>Plaster</b> (M 662) KÖSTER Restoration Plaster 2 White <b>Alternatives</b> (M 672), (M 661), (M 664), (M 665), (M 663) <b>Surface finishing</b> (M 369) KÖSTER Restoration Plaster Coat <b>Alternatives</b> (P 260) KÖSTER Silicone Paint White <b>Waterproofing pipe penetrations</b> (J 250) KÖSTER KB-Flex 200 + (C 515) KÖSTER KB-Fix 5
<b>Levelling the surface</b> (W 534) KÖSTER WP Mortar		<b>Plaster key</b> KÖSTER SanierPlaster + (W 710) KÖSTER SB Bonding Emulsion
<b>Stopping active leakages</b> (W 512) KÖSTER KD 2 Blitz		
<b>Primer</b> (M 111) KÖSTER Polysil TG 500		
<b>Installing fillets</b> (W 534) KÖSTER WP Mortar		

A very difficult situation as the basement waterproofing has to be done from the inside but the water is actively entering the building. Often the only solution is the KÖSTER KD-System.

KÖSTER KD 2 Blitz powder is applied directly by hand to the active leakage. The powder reacts within a few seconds and forms a waterproof mortar. When the active leakages are stopped the waterproofing layer of KÖSTER KD 1 Base, KÖSTER KD Blitz powder and KÖSTER KD 3 Sealer can be applied.

The material is applied to substrates that have to be sound and solid as well as free of bond inhibiting agents. Older plaster coats have to be removed and joints raked out and all loose particles have to be removed. Generally the substrate is primed by prewetting. Repairs and the installation of the fillet at the wall-floor junction are done with KÖSTER Repair Mortar Plus.

KÖSTER KD 1 Base is applied as the waterproofing layer and is brushed onto the substrate. KÖSTER KD 2 Blitz Powder is rubbed onto the still wet surface, immediately creating a dry waterproofed layer. To harden and to strengthen this layer the third part of the system, KÖSTER KD 3 Sealer, is applied. To waterproof the Basement completely another two layers of KÖSTER KD 1 Base are applied over the first. Pipe penetrations are waterproofed with KÖSTER KB-Flex 200 Sealing Paste and plugged with KÖSTER KB-Fix 5.

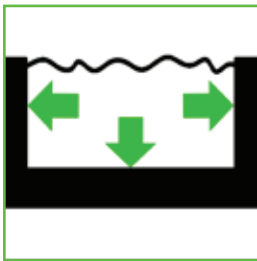
In the case of damage to basement walls caused by moisture generally KÖSTER Restoration Plaster should be applied. KÖSTER Restoration Plasters are specially designed for the restoration of masonry with high salt and moisture contents. KÖSTER Restoration Plasters help to dry out the wall and absorb remaining salts. They don't contain lime or gypsum, are open to water vapor diffusion and create a healthy and comfortable room climate.

Before the application of the main plaster coat, a plaster key made from the chosen KÖSTER Restoration Plaster mixed with KÖSTER SB-Bonding Emulsion is applied to provide a larger surface area and ensure an optimal bond to the substrate.

KÖSTER Restoration Plasters are available in different varieties (grey, white, fast and light). KÖSTER Restoration Plaster 2 White is often used in older buildings without subsequent painting. KÖSTER Plaster Coat creates a very smooth surface and can be applied when desired to meet architectural goals. KÖSTER Restoration Plasters can only be painted over with breathable (open to vapor diffusion) paints such as KÖSTER Silicon Paint White or KÖSTER MF1.

Always adhere to the specifications in the respective Technical Data Sheets.

## Waterproofing tanks and pipes



Leaking sewage pipes in wastewater treatment plants lead to considerable damage which is often discovered very late. When restoring such damage it is important to mitigate the different types of damages with waterproofing systems which are specifically adapted to the need. The damage analysis reveals if locally limited waterproofing of the leakage is sufficient or if the entire area has to be protected from chemical attack.

## Waterproofing tanks and pipes in sewage systems

<b>Stopping active leakages</b> (W 540) KÖSTER Waterstop		<b>Waterproofing shafts</b> (C 590) KÖSTER Sewer and Shaft Mortar
<b>Waterproofing sewers</b> (W 221) KÖSTER NB 1 Grey		<b>Waterproofing pipe couplings</b> (IN 285) KÖSTER PUR Gel
<b>Waterproofing masonry</b> (W 221) KÖSTER NB 1 Grey Additive (W 721) KÖSTER NB 1 Flex		<b>Crack injection</b> (IN 201) KÖSTER 2 IN 1 Alternatives (IN 110) KÖSTER IN 1 + (IN 220) KÖSTER IN 2
<b>Acid protection</b> (C 280) KÖSTER PSM Alternatives (CT 280) KÖSTER CMC		<b>Heavy duty surface protection</b> (C 590) KÖSTER Sewer and Shaft Mortar

Water treatment facilities like sewage treatment plants, sewers and shafts, or sewage water tanks made from concrete or masonry are exposed to a variety of stresses. The restoration of such facilities entails waterproofing, concrete repair, and concrete protection as well as protection against acids and abrasion. For this a wide range of materials are used.

KÖSTER Waterstop can be used to quickly waterproof small active leakages. The fast setting plug mortar swells slightly and closes the leakage instantly.

KÖSTER NB 1 Grey can be used for waterproofing on the positive and the negative side. KÖSTER Silicate Mortar is used for protection against acids. As an alternative, acid resistant tiles can be used which are bonded to the substrate with KÖSTER Silicate Adhesive. The jointing is done with KÖSTER Silicate Mortar. In this manner an acid and abrasion resistant surface is achieved.

The standard waterproofing for masonry is KÖSTER NB 1 Grey. In case of active leaks the KÖSTER KD System is applied.

For restoring concrete or masonry damaged by acids, the substrate is to be mechanically cleaned until a solid, unburdened substrate is achieved. The substrate is then primed with KÖSTER Polysil TG 500. Reprofiling is done with KÖSTER Repair Mortar NC. On top of the reprofiling KÖSTER Silicate Mortar is applied as acid protection.

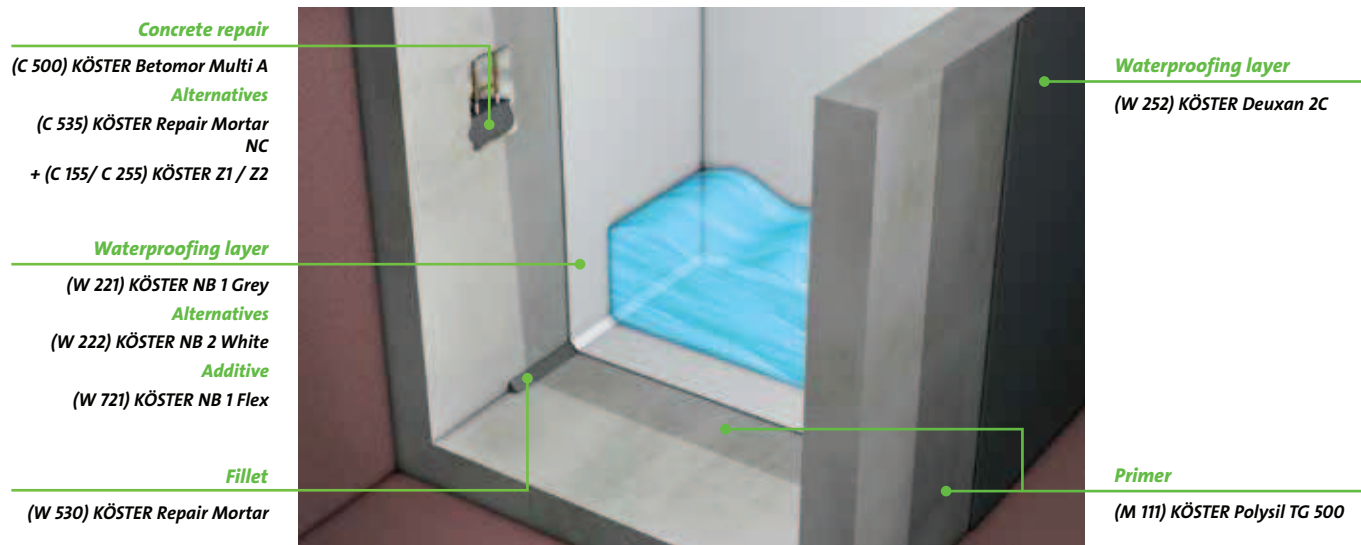
Shafts made from masonry and concrete must also be mechanically cleaned until a solid, unburdened substrate is reached. Reprofiling and levelling is done with KÖSTER Sewer and Shaft Mortar, which has been especially developed for this field of application. It bonds very well to damp substrates, can be applied easily, and sets quickly. KÖSTER Sewer and Shaft Mortar can even be applied under flowing water.

Pipe connections are often a source of leaks in sewer systems. Retroactive waterproofing is sometimes difficult due to significant water pressure from the inside and the outside. KÖSTER PUR Gel is an ideally suitable injection material for such cases. It forms an elastic waterproofing layer around the leak. In this way pipe connections can be sealed quickly and permanently.

Elastic waterproofing of cracks is achieved with KÖSTER 2 IN 1. The material is injected in two steps: First in order to stop the water from flowing and secondly to close the crack elastically and permanently. In case of strong water ingress KÖSTER IN 1 is used due to its faster reaction time. In order to seal the crack permanently the same crack has to be re-injected with the elastic resin KÖSTER IN 2.

Always adhere to the specifications in the respective Technical Data Sheets.

## Waterproofing water tanks



Concrete water tanks are waterproofed from the inside using KÖSTER NB 1 Grey or KÖSTER NB 2 White. KÖSTER NB 1 Grey is approved for use in drinking water environments.

The waterproofing is applied onto solid and prepared concrete substrates. The primer KÖSTER Polysil TG 500 increases the mechanical resistance of concrete surfaces and immobilizes salts present in the substrate. Smaller areas are repaired with KÖSTER Betomor Multi A or KÖSTER Betomor Light 88. Larger areas can be restored and reprofiled with KÖSTER Repair Mortar NC.

In the case of below grade tanks, the external side is waterproofed with a crack bridging coating, for example KÖSTER Deuxan 2C.

For waterproofing as well as for concrete repair, KÖSTER Polysil TG 500 is used as a primer in order to harden the concrete and prepare the substrate for the repair mortar.

Always adhere to the specifications in the respective Technical Data Sheets.



## **M** *Restoration of masonry*

*Restoration of masonry, anti mold systems*

# M

## KÖSTER Polysil TG 500



**Primer for mineral substrates before waterproofing with cementitious waterproofing slurries and PMBCs.**

In case of masonry restoration the product is used during substrate preparation for restoration plaster systems in order to harden the substrate and immobilize salts. Also suitable for the additional hardening of waterproofing slurries. KÖSTER Polysil TG 500 is a low viscous, substrate solidifying, hydrophobizing combination product on a polymer / silicate basis for the protection of mineral substrates. On salt containing and moist substrates, it causes a reduction of the pore volume and thereby prevents the renewed formation of salt efflorescence.



Consumption	Article No.	Packaging
approx. 0.1 - 0.13 kg / m <sup>2</sup> depending on substrate	M 111 001	1 kg
approx. 0.2 - 0.25 kg / m <sup>2</sup> for hardening of slurries	M 111 010	10 kg



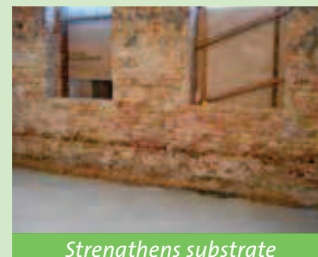
Masonry primer



Concrete primer



Prevents salt efflorescence



Strengthens substrate

## KÖSTER Mautrol Borehole Suspension



Low viscous mortar, penetrating into the finest voids and cracks. The material is a sulphate-resistant, solidifying mortar with silicifying properties for the filling of voids and cracks. Fields of application: For the installation of subsequent horizontal barriers with KÖSTER Crisin 76 Concentrate or KÖSTER Mautrol in case the KÖSTER Suction Angle System is not used. System component in the restoration of masonry.

Consumption: approx. 1.6 kg/ltr void

Article No. Packaging

M 150 024 24 kg

## KÖSTER AMS 1 Primer



Solvent-free vapor barrier serving as a deeply penetrating primer. First component of the KÖSTER Anti Mold System (AMS).

Consumption: approx. 0,25 kg/m<sup>2</sup>

M 152 002 2 kg

KÖSTER AMS System:  
M 152 + M 252 + M 652

## KÖSTER Hydrosilicate Adhesive SK



A system mortar for the gluing of KÖSTER Hydrosilicate Boards. KÖSTER Hydrosilicate Adhesive SK is also used as a spackle / plaster for the installed boards.

Consumption: approx. 3 kg/sqm as adhesive depending on the substrate, 1.7 kg/sqm as spackle per mm layer thickness

M 170 020 20 kg

KÖSTER HSP System:  
M 170 + M 670

**KÖSTER**  
**Mautrol Liquid Sealant**



Very thin fluid, deeply penetrating silicifying concentrate for waterproofing against rising damp (wicking moisture) in masonry. It reacts to water insoluble and water-repelling compounds which also have a solidifying effect on the building material. Together with KÖSTER Restoration Plasters it is suitable for the restoration of masonry.

Consumption: approx. 0.1 kg/m per cm wall thickness

Article No. Packaging

M 241 012 12 kg  
M 241 036 36 kg  
M 241 240 240 kg

**KÖSTER**  
**Mautrol Liquid Sealant Cartridge**



Silicifying concentrate in ready to use cartridges for waterproofing against rising damp (wicking moisture) in masonry. For pressureless injection into masonry. Together with KÖSTER Restoration Plasters it is suitable for the restoration of masonry.

Consumption: 8 - 15 cartr. per m depending on wall thickness

M 241 550 0,55 kg

**KÖSTER**  
**AMS 2 Liquid Film**



Solvent-free, vapor retarding, bonding promoting dispersion coating. Component 2 of the KÖSTER Anti Mold System (AMS).

Consumption: approx. 0.5 kg/sqm

M 252 005 5 kg

KÖSTER AMS System:  
M 151 + M 252 + M 652

**KÖSTER**  
**Mautrol 2C**



For waterproofing against rising damp (wicking moisture) even in strongly moisture penetrated construction members without previous drying. The material is applied by pressurized injection. Together with KÖSTER Restoration Plasters it is suitable for the restoration of masonry. Two-component, solvent-free and low viscous, additionally provides a solidifying effect on masonry. WTA tested for a moisture level of up to 95%.

Consumption: approx. 0.15 kg/m per cm wall thickness

M 261 039 39,5 kg  
M 261 262 262 kg

**KÖSTER**  
**Mautrol Flex 2C**



2-component, solvent-free, water dilutable acrylic based injection liquid against rising damp (wicking moisture). Suitable for application even in very damp construction members without drying them beforehand. Together with KÖSTER Restoration Plasters it is suitable for the restoration of masonry.

Consumption: approx. 0.2 kg/m per cm wall thickness

M 262 020 20 kg

## KÖSTER Crisin 76 Concentrate



**Waterproofing against rising damp (wicking moisture), especially suitable in case of high moisture and salt contents in the masonry.**

Due to its low specific gravity (0.91 g/m³) and its low surface tension compared to water, KÖSTER Crisin 76 Concentrate displaces the water in the capillaries. After its full cure the material stays elastic, does not decay or decompose. KÖSTER Crisin 76 Concentrate is resistant against all ordinary aggressive media that occur in masonry (e.g. acids, bases, salts) during application and after curing.



**KÖSTER Suction Angle:**  
M 279 + M 930 + M 963

### Consumption

approx. 0.1 l / m per cm wall thickness

### Article No.

### Packaging

M 279 200  
M 279 005  
M 279 010  
M 279 030



Simple installation



Also for thick walls



Successful over 25 years



Water insoluble

## KÖSTER Crisin Cream



Injection cream based on resin / silane against rising damp (wicking moisture). KÖSTER Crisin Cream is resistant against any moisture / salt content.

Consumption: at 12 cm wall thickness: approx. 140 ml/m;  
at 36 cm wall thickness: approx. 510 ml/m

M 278 010

10 l

M 278 310

310 ml

## KÖSTER Restoration Plaster Coat



Fine-grained, diffusion-open cement based, water-repelling plaster coat for application on top of KÖSTER Restoration Plasters.

M 369 025

25 kg

## KÖSTER AMS 3 Special Plaster



Condensate-reducing special plaster. Component 3 of the KÖSTER Anti Mold System (AMS).

Consumption: approx. 2 kg/sqm

M 652 015

15 kg

**KÖSTER AMS System:**  
M 151 + M 252 + M 652

## KÖSTER Restoration Plaster 1 Grey



Diffusion-open, salt-resistant restoration plaster. It can be applied manually or by machine. Very high porosity and hydrophobic properties. Prevents or reduces the formation of condensate. Free of light fillers. CE certified according to DIN EN 998-1.

Consumption: approx. 12 kg/sqm per cm layer thickness

M 661 025

25 kg

## KÖSTER Restoration Plaster 2 White



Diffusion-open, salt-resistant, high compressive strength, white restoration plaster.

Due to its very high porosity and hydrophobicity it allows for a damage free drying and desalination of masonry, event at high salt contents. Prevents the formation of condensate and absorbs crystallizing salts. It can be applied manually or by machine. High compressive strength. Free of light fillers. For internal and external application. CE certified according to DIN EN 998-1. WTA certified.



### Consumption

approx. 12 kg/sqm per cm  
layer thickness

### Article No.

M 662 025

### Packaging

25 kg



Suitable for historical objects



On damp masonry



On salt burdened substrates



As well as for external use

## KÖSTER Restoration Plaster 2 "Fast"



White, fast setting restoration plaster with high compressive strength. Ready for smoothing already after 30 – 60 minutes. Diffusion-open, high compressive strength, water-repellent and with high porosity. Prevents the formation of condensation and absorbs crystallizing salts. Free of light fillers. Especially suitable for repair works or in cases in which a fast plastering process is necessary. CE certified according to DIN EN 998-1.

Consumption: approx. 12 kg/sqm per cm layer thickness

M 663 030

30 kg

## KÖSTER Restoration Plaster 2 "Light"



White, water-repellent, hydrophobic, saltresistant restoration plaster open to water vapor diffusion with a low specific gravity and high porosity. Prevents the formation of condensation and absorbs crystallizing salts. CE certified according to DIN EN 998-1.

Consumption: approx. 9 kg/sqm per cm layer thickness

M 664 025

25 kg

**KÖSTER**  
Restoration Plaster 2  
"Fast & Light"



White, water-repellent, hydrophobic, salt resistant restoration plaster open to water vapor diffusion with a low specific gravity and high porosity. Prevents the formation of condensation and absorbs crystallizing salts. Ready for smoothing already after 30 – 60 minutes. CE certified according to DIN EN 998-1.

Consumption: approx. 9 kg/sqm per cm layer thickness

**KÖSTER**  
Hydrosilicate Tapered Board



Special designed board that prevents thermal bridges between the external and the internal walls or the ceiling. It is delivered in the size 500 x 380 x 60 to 20 mm.

Consumption: 5.26 boards / sqm

**KÖSTER**  
Hydrosilicate Board



Hydrophobic, open to vapor diffusion fiber free mineral board that prevents thermal bridges between the external and the internal walls or the ceiling. KÖSTER Hydrosilicate Boards have a high resistance to aging, are heat insulating and non-flammable. The boards prevent condensation, provide a moisture buffer and a healthy room climate. Available in 580 x 380 x 50 mm.

Consumption: 4.54 boards / sqm

**KÖSTER**  
Restoration Plaster E Grey



Diffusion-open, salt-resistant restoration plaster. It can be applied manually or by machine. Very high porosity and hydrophobic properties. Prevents or reduces the formation of condensate.

Consumption: approx. 12 kg/m² per cm layer thickness

**KÖSTER**  
Suction Angle



Plastic angle for the pressureless and material saving installation of horizontal barriers against rising damp (wicking moisture) with the KÖSTER Suction Angle System. Re-usable.

**Article No. Packaging**

M 665 025 25 kg

M 670 001 20 St. / Carton

KÖSTER HSP System:  
M 170 + M 670

M 670 008 (50 mm) 8 St. / Carton

M 670 016 (25 mm) 16 St. / Carton

KÖSTER HSP System:  
M 170 + M 670

M 672 025 40 x 25  
M 668 000 1000 kg

M 930 001 Piece

KÖSTER Suction Angle:  
M 279 + M 930 + M 963

**KÖSTER**  
Installation Tool for  
Capillary Rods



Assembly tool for an easy and fast installation of KÖSTER Capillary Rods in case of very moist of multi layer masonry.

Article No.	Packaging
M 931 001	Piece

**KÖSTER**  
Capillary Rods



For the pressureless and material saving installation of horizontal barriers against rising damp (wicking moisture) with the KÖSTER Suction Angle System. The patented KÖSTER Capillary Rod releases the injection liquid evenly and directly to the masonry, effectively bridging cracks and voids. No material is wasted in cavities.

M 963 045 (45 cm)	50 Piece
M 964 090 (90 cm)	50 Piece

KÖSTER Suction Angle:  
M 279 + M 930 + M 963

**KÖSTER**  
Protimeter



For evaluating the surface moisture of construction members.

M 999 001	Piece
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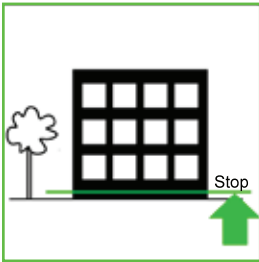
## GOOD TO KNOW: SALT IN MASONRY

Without a functioning horizontal barrier, water containing various salts can be transported into and through a wall through capillary action. These can have different sources such as de-icing salt, fertilizer, or even from the brick itself. When the salt containing water evaporates in the surface area of the wall, the salt remains in the wall or on its surface, leading to an increase of the salt concentration. The salt crystallizes on the surface or in the pores of the building material. This process is characterized by directed growth, an increase in volume and high strength of the crystals. When salt crystals form in the pores of a building material over a longer period of time, a high crystallization pressure builds up. This eventually leads to the destruction of the pore. Once this process has proceeded far enough, the surface of the construction material becomes brittle and starts to fall off. We recommend KÖSTER Crisin 76 Concentrate, KÖSTER Polysil TG 500 and KÖSTER Restoration Plasters as the ideal system components to protect and repair masonry from salt damage.



Salt crystals on the surface

## Horizontal barriers / Restoration of masonry



Rising moisture in masonry over a longer period of time can lead to considerable damage. Indications of this damage are salt efflorescence, flaking plaster, moist wallpaper and the formation of mold which can be harmful. KOSTER horizontal barriers stop rising moisture in new construction and existing buildings, protecting the value and integrity of the building.

### Horizontal barriers beneath rising walls



#### Horizontal barriers for walls

(W 810) KÖSTER Fix-Tape 10 SY

#### Alternatives

(W 233) KÖSTER NB Elastic Grey

(W 221) KÖSTER NB 1 Grey

+ (W 721) KÖSTER NB 1 Flex

Horizontal waterproofing beneath the walls in a new construction is required to avoid rising moisture due to capillary action in masonry or concrete. For this application many KOSTER products can be used. KOSTER Fix-Tape 10 AW is a self adhesive waterproofing tape which is easy and fast to apply. Alternatively the waterproofing slurry KOSTER NB

1 Grey (mixed with KOSTER NB 1 Flex) or the crack bridging waterproofing material KOSTER NB Elastic Grey are used.

Always adhere to the specifications in the respective Technical Data Sheets.

## Horizontal barriers with pressureless injection



Rising damp (or “wicking”) moisture is among the most frequently encountered causes of damage in masonry walls. The results are clearly identifiable through the spalling of plaster, damaged joints and bricks, and also through salt efflorescence and algae growth. Damage from rising damp can be avoided by the installation of a horizontal barrier.

The easiest and most successful KOSTER system to use when installing a horizontal barrier in existing walls is the KOSTER Suction Angle System with KOSTER Crisin®76 Concentrate. KOSTER Crisin®76 Concentrate is a very thin fluid resin which penetrates into the smallest capillaries in the building material and stops the capillary action permanently, it also has a hydrophobizing effect.

Boreholes are drilled with a regular spacing which depends on the wall thickness. KOSTER Crisin®76 Concentrate is injected, without pressure, into the wall via the KOSTER Suction Angle and the KOSTER Capillary Rod which acts as a wick. The pressureless system uses the same capillary action which is the cause of rising damp. Thereby rising moisture is stopped with the aid of its cause. The big advantage of the KOSTER Capillary Rod is that it doesn't waste material in cracks or voids. Only where the rod touches the wall of the borehole will the material be released.

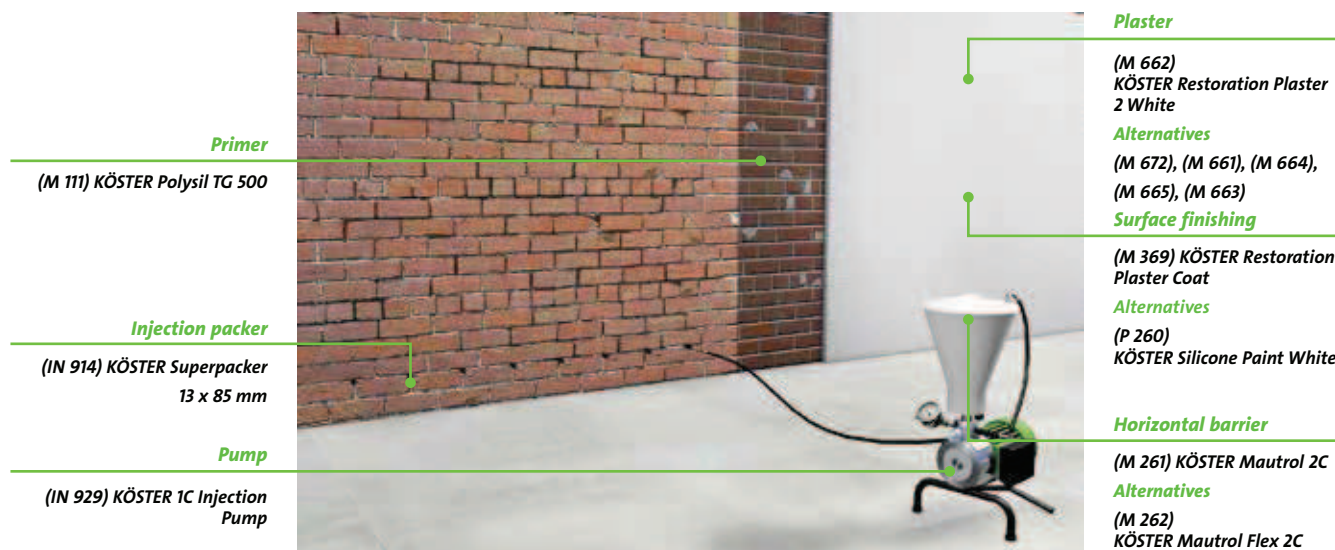
In some cases, e.g. when the walls are only slightly damp, KOSTER Mautrol Liquid Sealant can also be applied. Before the application an analysis of the moisture content and the salt content must be carried out.

In cases where damage is caused by rising damp the old plaster has to be removed from the wall. After the installation of the horizontal barrier the application of KOSTER Restoration Plaster is required. KOSTER Restoration Plaster allows the masonry to dry without damage. KOSTER Restoration plasters are open to vapor diffusion and are hydrophobic. Salts remaining in the wall are absorbed by the KOSTER Restoration Plasters so that salts do not effloresce to the surface and cause damage to the plaster or paint.

KOSTER Restoration Plasters are available in different varieties (grey, white, fast and light). KOSTER Restoration Plaster 2 White is often used in older buildings without subsequent painting. KOSTER Plaster Coat creates a very smooth surface and can be applied when desired to meet architectural goals. KOSTER Restoration Plasters can only be painted over with breathable (open to vapor diffusion) paints such as KOSTER Silicon Paint White or KOSTER MF 1.

Always adhere to the specifications in the respective Technical Data Sheets.

## Horizontal barriers with pressure injection for voidless masonry



The installation of a horizontal barrier via pressurized injection is fast and effective. When it is possible to ensure that the wall is free of cracks or voids, the horizontal barrier can be installed with a pressurized injection system. Cracks and voids which become apparent during the drilling process can be filled with KÖSTER Borehole Suspension. After filling, the borehole is re-drilled.

Suitable injection liquids for this kind of application are KÖSTER Mautrol® 2C and KÖSTER Mautrol® Flex 2C. Two component materials have a faster setting time which results in quicker blocking of the capillaries.

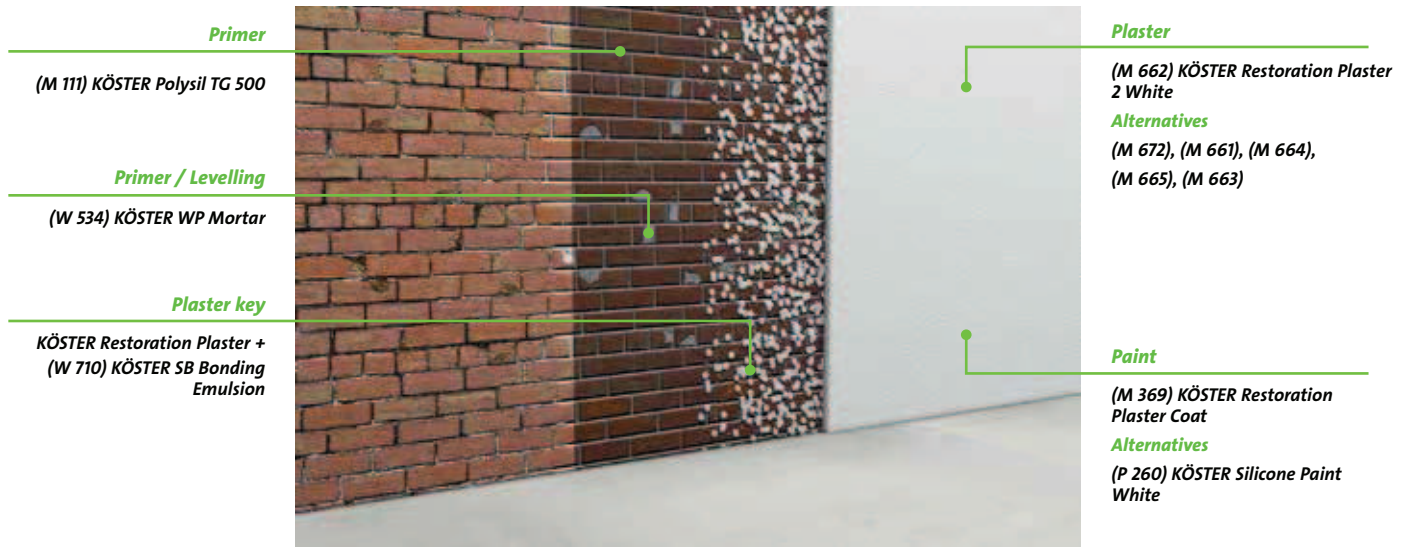
In cases where damage is caused by rising damp the old plaster has to be removed from the wall. After the installation of a horizontal barrier the application of KÖSTER Restoration Plaster is required. KÖSTER Restoration Plaster allows the masonry to dry

without damage. KÖSTER Restoration plasters are open to vapor diffusion and are hydrophobic. Salts remaining in the wall are absorbed by the KÖSTER Restoration Plasters so the salts do not effloresce to the surface and cause damage to the plaster or paint.

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Always adhere to the specifications in the respective Technical Data Sheets.

## Restoration of masonry with restoration plasters



When masonry is just slightly damp often a renovation using KÖSTER Restoration Plasters is enough to dry the wall and stop damage from occurring. In this case the old plaster has to be removed from the wall and the joints raked out. All loose particles have to be removed to provide a stable and absorptive, open pored surface. For best results, prime with KÖSTER Polysil TG 500 prepares the masonry for the application of KÖSTER Restoration Plaster. KÖSTER Polysil TG 500 hardens the substrate as well as reduces the mobility of salts. Masonry repairs are carried out with KÖSTER Repair Mortar Plus.

Before the application of the main plaster coat, a plaster key made from the chosen KÖSTER Restoration Plaster mixed with KÖSTER SB-Bonding Emulsion is applied to provide a larger surface area and to ensure the best possible bond to the substrate.

KÖSTER Restoration Plaster allows the masonry to dry without damage. KÖSTER Restoration plasters are open to vapor diffusion and are hydrophobic. Salts remaining in the wall are absorbed by the KÖSTER Restoration Plasters so that salts do not effloresce to the surface and cause damage to the plaster or paint.

KÖSTER Restoration Plasters are available in different varieties (grey, white, fast and light). KÖSTER Restoration Plaster 2 White is often used in older buildings without subsequent painting. KÖSTER Plaster Coat creates a very smooth surface and can be applied when desired to meet architectural goals. KÖSTER Restoration Plasters can only be painted over with breathable (open to vapor diffusion) paints such as KÖSTER Silicon Paint White or KÖSTER MF 1.

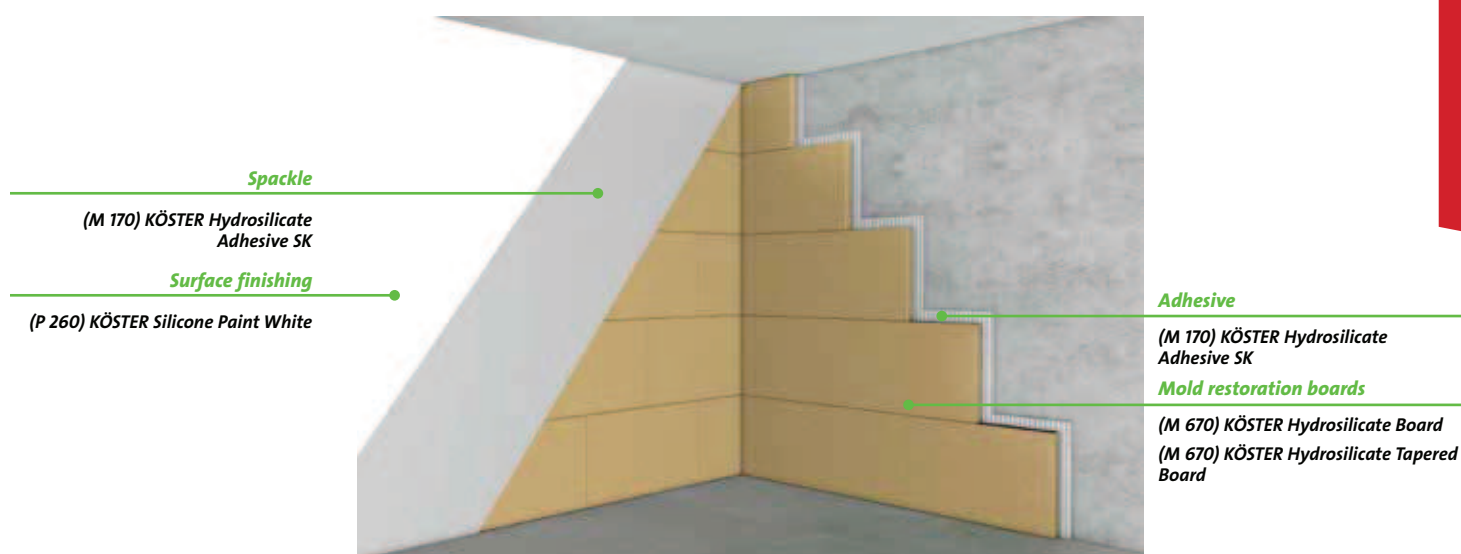
Always adhere to the specifications in the respective Technical Data Sheets.

## Anti-Mold System



Mold in living areas is caused by moisture penetration and thermal bridges and can cause serious health problems as the mold releases spores into the air which are then inhaled by the inhabitants. A special Anti-Mold System – which functions on a purely physical basis and which is free of fungicidal toxins provides a permanent protective coating on which mold cannot grow.

## Mold Remediation with KÖSTER hydrosilicate boards



Due to health reasons alone, living and storage spaces should be free of mold. The KÖSTER Hydrosilicate Board System fights mold without the use of toxins. Based on a pure physical functionality, KÖSTER Hydrosilicate Boards stops mold in its tracks. Due to its thermal insulating effect, it acts as a moisture control, helps reduce the formation of condensation, and provides a pleasant living environment. The presence of high alkalinity and a permanent dry surface prevent the undesirable growth of mold.

Old wall coverings and bond inhibiting substances such as wallpaper, gypsum residues, paint or insulation must be completely removed. Absorbent substrates are primed with KÖSTER Polysil® TG 500. Irregularities and holes in the surface smaller than 5 mm can be levelled with KÖSTER Hydrosilicate Adhesive SK. Larger surface defects can be repaired

using KÖSTER Repair Mortar mixed with 20% KÖSTER SB Bonding Emulsion added to the mixing water. Apply the system only after the substrate leveling has completely cured. For gluing, KÖSTER Hydrosilicate Adhesive SK is fully and completely applied to the substrate. The KÖSTER Hydrosilicate Boards are cut to the desired size using a hand saw and are pressed to the wall. After the boards have been installed, bead of KÖSTER Hydrosilicate Adhesive SK is applied along edges of the boards to make sure that the joints are fully filled. Subsequently, the whole area is plastered with a layer of KÖSTER Hydrosilicate Adhesive SK.

All successive paints must be open to vapor diffusion, such as KÖSTER Silicone Paint White. Always adhere to the specifications in the respective Technical Data Sheets.



## **IN** *Injection systems*

*Crack injection and crack repair systems*

# IN

**KÖSTER  
IN 1**

Water activated, two component, hydrophobic PU injection foam. The material only reacts when it comes in contact with water and immediately forms a stiff, waterproof polyurethane foam. Volume expansion up to 30 times. Free of solvents and fillers, resistant to hydrolysis. Mixing ratio 12:1 (volume). Fields of application: waterproofing water bearing cracks in concrete and masonry.

Consumption: approx. 0.1 kg/ltr void

**Article No.      Packaging**

IN 110 001	1 kg
IN 110 005	5.5 kg
IN 110 027	27.5 kg
IN 110 236	236.5 kg

**KÖSTER  
2 IN 1**

### 2 products in 1: PU Injection resin for dry and water bearing cracks, two component, solvent-free.

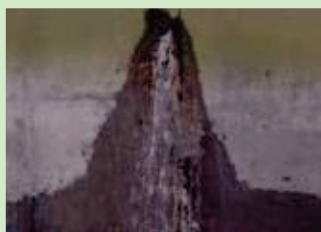
The specialty: KÖSTER 2 IN 1 forms an elastic foam when coming into contact with water which pushes the water out of the crack. If no water is present the material forms an elastic solid body resin and permanently seals the crack. Fields of application: Waterproofing of water bearing and permanently sealing dry cracks in masonry and concrete.

**Consumption**

approx. 0.1 kg / l void (foam);  
approx. 1.1 kg / l void (solid resin)

**Article No.****Packaging**

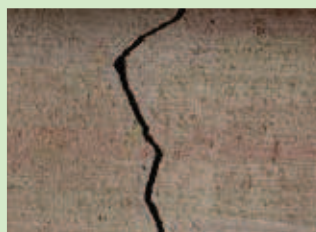
IN 201 001	1 kg
IN 201 005	5 kg
IN 201 025	25 kg
IN 201 430	430 kg



For water bearing cracks



Forms foam in wet cracks



For dry cracks



Forms resin in dry cracks

**KÖSTER  
IN 2**

Elastic PU injection resin. For permanently waterproofing moving cracks and joints. Viscosity approx. 200 mPa.s. Fields of application: In combination with KÖSTER IN 1 for permanently and elastically sealing water bearing cracks and joints. Without pre-injection for the sealing of dry cracks, joints and voids. KÖSTER IN 2 is used in cases where future movements of the building structure can not be excluded.

Consumption: approx. 1.1 kg/l void

IN 220 001	1 kg
IN 220 008	8 kg
IN 220 040	40 kg
IN 220 345	345 kg

**KÖSTER  
IN 3**

Viscoplastic PU injection resin for the restoration of structural strength in cracks and joints. Solvent free, 2-component, low viscosity. Compressive strength > 80 N / mm<sup>2</sup>, tensile strength 14 N/mm<sup>2</sup>. Fields of application: In combination with KÖSTER IN 1 for the permanent sealing and bridging (where structural strength is required) of water bearing cracks and joints in concrete.

Consumption: approx. 1.1 kg/l void

IN 230 001	1 kg
IN 230 008	8 kg
IN 230 430	430 kg

## KÖSTER KB-Pox IN



### Low viscous injection resin for crack injection.

Due to its high rate of penetration into porous substrates and its excellent adhesion to concrete, stone, masonry and metal, KÖSTER KB-Pox IN permanently seals and bridges cracks as well as joints and restores structural integrity. KÖSTER KB-Pox IN does not contain any fillers or softeners and thereby sedimentation is avoided. Fields of application: Suitable for the restoration of structural bonding in cracks and joints. Without pre-injection KÖSTER KB-Pox IN can, without any prior injection, be used for filling and closing dry, and damp and wet cracks, joints and voids.



#### Consumption

approx. 1 kg / l void

#### Article No.

IN 231 006

IN 231 001

#### Packaging

6 kg

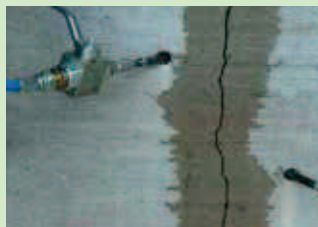
1 kg



Penetrates even into the finest cracks



Suitable for moist cracks



Suitable for wet cracks



Crack stitching

## KÖSTER IN 4



Flexible, very low viscosity PU special resin for elastically sealing very fine cracks and construction joints in building structures. KÖSTER IN 4 stays permanently elastic, even at low temperatures. Fields of application: For the pressurized waterproofing of fine cracks, construction joints and for hose injection. For solidifying porous building structures.

Consumption: approx. 1.1 kg/l void

#### Article No.

IN 240 010

IN 240 425

#### Packaging

10 kg

425 kg

## KÖSTER IN 5



Very low viscosity, elastic PU injection resin, specially designed for hose injection. For permanently and elastically sealing dry, moist, wet and waterbearing cracks and joints in concrete. Two component, very low viscosity, (at 25 °C approx. 70 mPa · s), mixing ration 1:1 (by volume). Fields of application: Pressurized waterproofing of fine cracks, hose injection, solidification of substrates. CE certification according to EN 1504-5

Consumption: approx. 1.1 kg/l void

#### Article No.

IN 250 010

IN 250 410

#### Packaging

10 kg

410 kg

## KÖSTER IN 7



Viscoplastic, water activated PU injection foam. Reacts only when in contact with water and spontaneously forms a compact, viscoplastic, waterproof polyurethane foam which is able to follow crack movements. Volume expansion up to 30 times. Free of solvents and fillers, resistant to hydrolysis. Mixing ration 12 : 1 (by volume). Fields of application: Single-step waterproofing of water bearing cracks without the subsequent injection of a solid body resin.

Consumption: approx. 0.1 kg/l void

#### Article No.

IN 270 001

IN 270 005

IN 270 027

IN 270 236

#### Packaging

1 kg

5.5 kg

27.5 kg

236.5 kg

## KÖSTER PUR Gel



### Water activated polyurethane gel for curtain and area injection.

Depending on the amount of water added, a highly elastic waterproof hydro gel is formed. It does not promote corrosion and is solvent-free. Fields of application: retroactive external waterproofing (curtain injection), injections in highly porous, jointed and cracked building materials (area injection) as well as for the sealing of pipe couplings, pipe and cable penetrations, and joints in masonry, concrete and soils (partial injection).



#### Consumption

depending on the field of application

#### Article No.

#### Packaging

IN 285 002	2,5 kg
IN 285 025	25 kg
IN 285 210	210 kg



Curtain injection



Surface injection



Waterbearing joint



Special applications

## KÖSTER Micro Grout 1C



Injection grout for the restoration of structural strength in cracks or voids in masonry and concrete. KÖSTER Micro Grout 1C possesses a high compressive strength, is shrink free and does not show sedimentation during its pot life. Fields of application include crack injection also in overhead areas, filling of voids as well as the grouting of masonry anchors.

Consumption: 1.6 kg/ltr void

#### Article No.

#### Packaging

IN 295 024	24 kg
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## KÖSTER PUR Cleaner



Cleaning agent for the removal of fresh polyurethane. Suitable for cleaning tools, e. g. the KÖSTER 1C Injection Pump after injecting KÖSTER Injection Resins. Based on special solvents.

Consumption: as needed

#### Article No.

#### Packaging

IN 900 010	10 l
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## KÖSTER Impact Packer 12



Plastic packer with cone-head fitting and non-return valve for low-pressure resin injection. Drillhole diameter: 12 mm.

#### Article No. (12 x 70 mm)

#### Packaging

IN 903 001	Piece
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**KÖSTER**  
**Impact Packer 18 Plus**

Plastic packer with non-return valve for the low-pressure injection of resins and gel. Drillhole diameter: 18 mm.

IN 904 001  
(18 x 110 mm)

Piece



**KÖSTER**  
**Impact Packer 18**

Plastic packer with cap for low-pressure grout injection. Drillhole diameter: 18 mm.

IN 905 001  
(18 x 110 mm)

Piece



**KÖSTER**  
**Impact Tool for Impact Packer 12**

Plastic cylinder for installing impact packer 12.

IN 907 001

Piece



**KÖSTER**  
**Impact Packer 18 Adapter**

Adapter for connecting to KÖSTER Impact Packers 18 and KÖSTER Impact Packers 18 Plus.

IN 908 001

Piece



**KÖSTER**  
**Lamella Impact Packer 18 x 112 mm**

A modular impact packer for the injection of injection grouts, gel and injection resins. Depending on the application it can be expanded with a slip-on non-return valve. Drillhole diameter 18 mm.

IN 909 001  
(18 x 112 mm)

Piece



IN 910 001

Piece

**KÖSTER**  
Impact tool for Impact  
Packer 18 and Lamella  
Packer



Plastic cylinder for installing the KÖSTER Impact Packer 18 and KÖSTER Lamella Packer

Article No.  
IN 911 001

Packaging  
Piece

**KÖSTER**  
Superpacker



The KÖSTER Superpacker is particularly suitable for pressure injections. It provides a very high contact pressure to the borehole due to the cone-shaped center of the tightening mechanism. Four fins and two ridges on the rubber gasket prevent rotation during tightening and facilitate the optimal fixing of the packer in the borehole. It has a firmly mounted cone-head fitting for pressure injection and is galvanised.

IN 912 001  
(10 x 85mm)

100 Piece

IN 913 001  
(10 x 115 mm)

100 Piece

IN 914 001  
(13 x 85 mm)

100 Piece

IN 915 001  
(13 x 115 mm)

100 Piece

**KÖSTER**  
One-day-site Packer



Allows for injection works to be completed in one day. The screw packer for pressure injection has a firmly mounted cone-head fitting and non-return valve.\* Therefore, immediately after injecting, that part of the port which protrudes from the wall can be unscrewed and removed. The central part of the port stays in the wall sealing the borehole so that no injection material can flow out of the borehole even under high pressure. The borehole can then be closed immediately after injection.

IN 918 001  
(13 x 90 mm)

100 Piece

IN 919 001  
(13 x 120 mm)

100 Piece

**KÖSTER**  
Injection Lance



Injection lance with pan-head fitting for gel injections. Drillhole diameter = diameter of the lance + 1-2 mm, depending on the substrate. Special design upon request.

IN 923 001  
(18 x 300 mm)

25 Piece

IN 924 001  
(18 x 550 mm)

25 Piece

**KÖSTER**  
Distributor Lance



Injection lance with pan-head fitting for gel curtain injections and a guide bar for the lateral distribution of the injection material. German patent, European patent. Drillhole diameter = diameter of the lance + 1-2 mm, depending on the substrate. Special design upon request.

IN 925 001  
(18 x 300 mm)

25 Piece

IN 926 001  
(18 x 580 mm)

25 Piece

\* Optional: All packers can also be delivered with loosely mounted cone-head fittings or pan-head fittings.

## KÖSTER Gel Pump



### 2 component injection pump specially designed for KÖSTER PUR Gel.

The electrical pump allows for a stageless adjustable mixing ratio (gel : water) and is operated by a pressure of approx. 15 bar. The maximum delivery rate is approx. 2.5 l / min. Technical data: Operating pressure approx. 15 bar, electrical connection 230 V, 50 Hz, Static suction lift 2 m, capacity of the material hopper approx. 6 kg PUR Gel.



#### Technical Data

Operating pressure	approx. 15 bar
Electrical connection	230 V, 50 Hz
Static suction lift	2 m
Material Hopper	approx. 6 kg PUR Gel

#### Article No. Packaging

IN 928 001 Piece



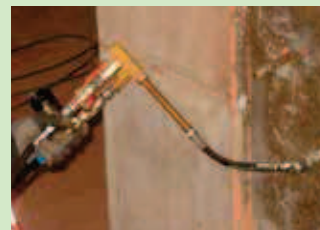
Curtain injection



Surface injection



Water-bearing joints



Steplessly adjustable

### Accessories list for the KÖSTER Gel Pump

#### KÖSTER Water Hose



Length: 5 m

IN 928 002

Piece

#### KÖSTER Gel Hose



Length: 5 m

IN 928 003

Piece

#### KÖSTER Manometer



40 bar

IN 928 004

Piece

#### KÖSTER Mixhead



IN 928 005

Piece

#### KÖSTER Injection Whip



Length: 250 mm

IN 928 006

Piece

#### KÖSTER Slide Coupling



Connection M10 x 1

IN 928 007

Piece

#### KÖSTER Swivel-joint



Connection between injection whip and slide coupling. Length 300 mm, connection M10 x 1

IN 928 008

Piece

## KÖSTER 1C Injection Pump



1 component injection pump for KÖSTER Injection Resins (foams and resins).

The electrical pump is suitable for high and low pressure injections in cracks or voids. Operating pressure can be adjusted from 0 - 200 bar. The maximum delivery rate is approx. 2.2 l / min. Technical data: Operating pressure approx. 0 -200 bar, electrical connection 230 V, 2,25 A, 50 Hz, motor performance 0,75 kW, capacity of the material hopper approx. 6 kg PUR Gel.



### Technical Data

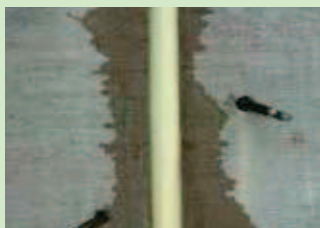
Operating pressure	0 - 200 bar
Electrical connection	230 V, 2,25 A, 50 Hz
Capacity	0,75 kW
Material hopper	approx. 6 l

### Article No. Packaging

IN 929 001 Piece



0 - 200 bar adjustable pressure



Suitable for foams



Suitable for resins



6 l Behälter

### Accessories list for the KÖSTER 1C Injection Pump

### Article No. Packaging

#### KÖSTER HP Material Hose



Length: 5 m

IN 929 002 Piece

#### KÖSTER Ball Valve



with grip head

IN 929 003 Piece

#### KÖSTER Manometer



200 bar

IN 929 004 Piece

#### KÖSTER Material Hopper



6 l material hopper with sieve for the KÖSTER 1C Injection Pump.

IN 929 005 Piece

#### KÖSTER Coarse Sieve



Coarse sieve for the KÖSTER 1C Injection Pump.

IN 929 006 Piece

#### KÖSTER Fine Sieve



Fine sieve for the KÖSTER 1C Injection Pump.

IN 929 007 Piece

**KÖSTER**  
**Loka Hand Pump**



Manual membrane pump for the injection of KÖSTER Injection Grouts and KÖSTER Borehole Suspensions.

IN 952 001

Piece

**KÖSTER**  
**Hand Pump without manometer**



For small injection projects or areas which are difficult to access. Operating pressure 100 bar max., output approx. 2 cm<sup>3</sup> per pass.

IN 953 001

Piece

**KÖSTER**  
**Hand Pump with manometer**



For small injection projects or areas which are difficult to access. Operating pressure 100 bar max., output approx. 2 cm<sup>3</sup> per pass.

IN 953 002

Piece

**KÖSTER**  
**Injection Whip**



Available length: 500 mm or 300 mm. Connection M10 x 1

IN 953 003  
(300 mm)

Piece

IN 953 004  
(500 mm)

Piece

**KÖSTER**  
**Grip Head**



With 4 jaws for cone-head fittings. Connection M10 x 1

IN 953 005

**KÖSTER**  
Foot Pump

Manual membrane pump for pumping and injecting  
KÖSTER PUR Injection Resins as well as KÖSTER  
Horizontal Barriers.

IN 958 001

Piece

**KÖSTER**  
Cleaning Brush

Conical round brush for cleaning voids at cable and  
pathway penetrations.

IN 959 001

Piece

**KÖSTER**  
Resin Mixer

Special mixer for resins. Reduces air enclosures.  
Connection 12 mm, round

IN 988 001

Piece



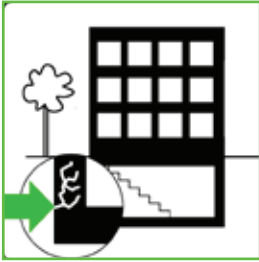
## GOOD TO KNOW: ANALYZING CRACK MOVEMENTS

Moving cracks are cracks where one of the flanks of the crack or both change their location. To analyze if a crack moves or not, a very simple and secure method can be used: a gypsum mark serves as a crack monitor. A bone-shaped layer of gypsum with a thickness of 10 mm is applied to the cracked surface. Gypsum marks have to be numbered and dated. Moreover, the position and state of the installed gypsum marks are to be documented with drawings or photographs at regular intervals over a certain period of time. The gypsum marks are frequently checked. If the mark is unbroken, the crack did not move. If the crack has moved, the gypsum mark will have cracked right over the crack in the substrate. A moving crack can be sealed either elastically (in the case of waterproofing or aesthetic repair) or rigidly (in the case that restoration of the structural strength is required). When closing moving cracks rigidly, the appearance of a new crack close to the old crack must be prevented e.g. by eliminating the cause of the movement.



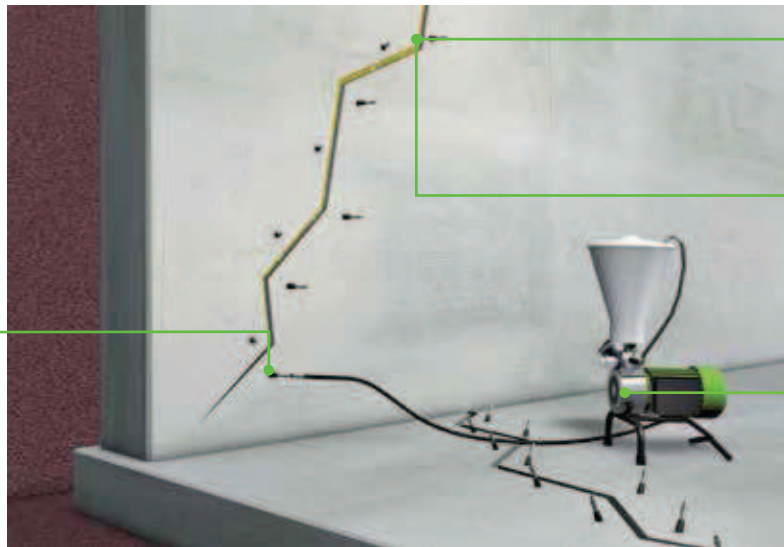
Gypsum mark

## Crack injection and hose injection



Cracks in a building's substance are structurally weak points. Additionally, penetrating water may cause damage and affect the lifespan and usability of the building. An elastic sealing or structural-bonding of the crack is required. In order to achieve this, the crack is completely filled over its entire course with a polyurethane injection resin via pressure injection. The KÖSTER injection resins which are applied can also be used in drinking water environments.

### Crack injection by pressure injection on dry or wet cracks



#### Installing the packers

(IN 914) KÖSTER Superpacker

#### Alternatives

(IN 918) KÖSTER One-day-site Packer  
(IN 903) KÖSTER Impact Packer 12  
(IN 905) KÖSTER Impact Packer 18

#### Injection Resin (elastic)

(IN 201) KÖSTER 2 IN 1

#### Alternatives

(IN 250) KÖSTER IN 5

#### Injection Resin (structural)

(IN 231) KÖSTER KB-Pox IN

#### Alternatives

(IN 230) KÖSTER IN 3

(IN 295) KÖSTER Injektionsleim 1K

#### Pump

(IN 929) KÖSTER 1C Injection Pump

Dry or wet cracks are sealed permanently with KÖSTER injection materials.

KÖSTER KB-Pur 2 IN 1 is the standard material for waterproofing cracks. The material forms a foam when it comes in contact with water and stops it by reacting with the water or displacing it. A second injection using the same material permanently and elastically waterproofs the crack.

KÖSTER KB-Pur IN 3 is used for the structural bonding of cracked or damaged building elements. KÖSTER KB-Pur IN 5 is a very low viscous polyurethane injection resin with a very long pot life. It is especially suitable for injection into very small and fine cracks.

KÖSTER Micro Grout 1C is a mineral injection material which is ideal to fill voids and cracks of medium width. The material has excellent adhesion properties even to damp substrates. It also possesses a very high

compressive strength after curing.

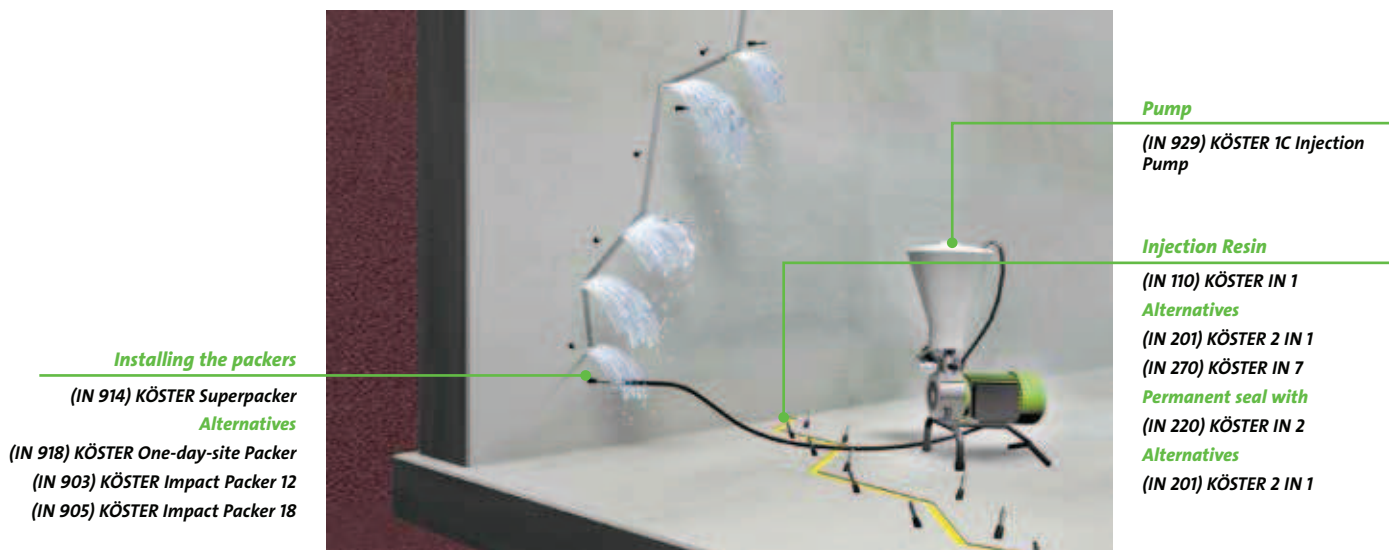
All KÖSTER injection resins are installed with the KÖSTER 1C Injection Pump via injection valves called "Packers" into the crack. Depending on the application, different packers are available. KÖSTER Impact Packers "12" are installed very quickly and are recommended for low to medium pressure.

KÖSTER Packers and KÖSTER Superpackers are used for all applications from low to high pressure.

KÖSTER One Day Site Packers have an extra valve so that the upper part of the packer can be removed directly after injection and the hole plugged. The borehole stays pressure sealed.

Always adhere to the specifications in the respective Technical Data Sheets.

## Pressure injection of water bearing cracks



### Installing the packers

(IN 914) KÖSTER Superpacker

Alternatives

(IN 918) KÖSTER One-day-site Packer

(IN 903) KÖSTER Impact Packer 12

(IN 905) KÖSTER Impact Packer 18

### Pump

(IN 929) KÖSTER 1C Injection Pump

### Injection Resin

(IN 110) KÖSTER IN 1

Alternatives

(IN 201) KÖSTER 2 IN 1

(IN 270) KÖSTER IN 7

Permanent seal with

(IN 220) KÖSTER IN 2

Alternatives

(IN 201) KÖSTER 2 IN 1

In case of water actively leaking from a crack a combination of KÖSTER KB-Pur IN 1 (very fast foaming after contact with water) and KÖSTER KB-Pur IN 2 (used for permanently sealing the crack) is applied.

KÖSTER KB-Pur IN 7 is also a very fast foaming injection resin which creates a permanently elastic seal. KÖSTER KB-Pur IN 7 needs to have contact with water to build foam and for curing.

All KÖSTER injection resins are installed with the KÖSTER 1C Injection Pump via injection valves called "Packers" into the crack. Depending on the application, different packers are available.

KÖSTER Impact Packers "12" are installed very quickly and are recommended for low to medium pressure.

KÖSTER Packers and KÖSTER Superpackers are used for all applications from low to high pressure.

KÖSTER One Day Site Packers have an extra valve so that the upper part of the packer can be removed directly after injection and the hole plugged. The borehole stays pressure sealed.

Always adhere to the specifications in the respective Technical Data Sheets.

## Waterproofing of construction joints in the wall/floor junction



For retroactive waterproofing of the wall-floor junction the boreholes have to be drilled transecting the construction joint. The borehole should be drilled approximately into the middle of the construction joint.

For this application KOSTER Superpackers or KOSTER One Day Site Packers are used. The injection is done with the KOSTER 1C Injection Pump.

For this KOSTER KB-Pur IN 5 can be used, which is a very low viscous polyurethane injection resin with a

very long pot life. It will pass into the small and finest cracks along the construction joint.

In case of flowing water or when it is not certain if the crack is dry or wet KOSTER KB-Pur 2 IN 1 is injected. It is injected twice 10 – 20 minutes apart to ensure that the joint is permanently and elastically sealed.

Always adhere to the specifications in the respective Technical Data Sheets.

## Construction joint injection via an injection hose



Injection Resin  
(IN 250) KÖSTER IN 5

Injection hose

Construction joints, especially in the wall floor junction, when installed underneath ground level always need particular attention when it comes to waterproofing. Defects in this area are not uncommon. Before pouring the concrete for the rising wall, the injection hose is installed in the construction joint. Injection hoses are perforated or slotted. After the concrete has cured an elastically curing resin is pressure injected into the injection hose. The joint is now permanently elastically sealed and

waterproofed.

For the application via injection hose KÖSTER KB-Pur IN 5 is the product of choice. It has a low viscosity and a long pot life. These two aspects are very important for the application so the product has enough time to enter the small and fine voids and doesn't start to react during the injection.

Always adhere to the specifications in the respective Technical Data Sheets.



**C**   ***Concrete protection and repair***  
*Concrete and mortar additive*

C

**KÖSTER  
Z 1**

KÖSTER Z 1 is a polymer modified special slurry for the mineral corrosion protection of steel reinforcement. The material is pigmented in grey which allows for a visible application control of the first layer. The second layer is carried out with KÖSTER Z2.

Consumption: approx. 800 g/sqm (per layer)

**Article No.****Packaging**

C 155 001

1 kg

**KÖSTER  
Z 2**

KÖSTER Z2 is a polymer modified special slurry for the mineral corrosion protection of steel reinforcement. The material is pigmented in red and allows for a visual control of the application on the first grey layer of KÖSTER Z1.

Consumption: approx. 800 g/sqm (per layer)

C 255 001

1 kg

**KÖSTER  
PSM**

Three-component, highly chemical resistant, silicate and polymer based special mineral mortar. For the water-proofing of horizontal and vertical areas which require very high acid resistance in the area of pH 0 – 8. Suitable for dry substrates, easy to apply.

Consumption: approx. 1.9 kg/sqm per mm layer thickness

30.75 kg

**KÖSTER  
Betomor Multi A**

**Multi purpose mortar for concrete restoration. Shrink-free, fast curing.**

Particularly suitable for the protection of exposed reinforcement steel: It unites corrosion protection, bonding bridge, coarse mortar and fine filler in one product. For layer thicknesses from 0 – 60 mm.

**Consumption**

approx. 1.3 kg / l void

**Article No.****Packaging**

C 500 006

6 kg

C 500 015

15 kg

C 500 025

25 kg



Corrosion protection (coating)



Coarse mortar



Fine filler



Balcony restoration

**KÖSTER**  
**C-Coat**



For the repair and maintenance of concrete surfaces. Waterproof and tension free after full cure. Synthetically modified, waterproof fine filler for the smoothing of concrete surfaces. For layer thicknesses between 0 - 5 mm.

C 510 025 25 kg

Consumption: approx. 1.7 kg/sqm per mm layer thickness

**KÖSTER**  
**KB-Fix 1**



Waterproof, weatherproof, fast curing mortar with high compressive strength (sets after approx. 1 minute) for fast installations as well as for small repairs of masonry and concrete. Free of soda and chlorides.

C 511 015 15 kg

Consumption: approx. 1.8 kg/ltr void

**KÖSTER**  
**KB-Fix 5**



Waterproof, weatherproof, fast curing mortar with high compressive strength (sets after approx. 5 minutes) for fast installations as well as for small repairs of masonry and concrete. Free of soda and chlorides.

C 515 015 15 kg

Consumption: approx. 1.8 kg/ltr void

**KÖSTER**  
**Turbo F**



Repair, concrete replacement, and re-profiling mortar with a shrink and tension free curing, providing an exceptional strength development. The mortar can be mechanically stressed already after 60 minutes. The consistency can be regulated for vertical or horizontal application by the addition of water. With the addition of KÖSTER Turbo additives, the mortar characteristics can be optimized for individual jobsite requirements.

C 516 025 25 kg

Consumption: approx. 1.9 kg / ltr void as repair mortar

**KÖSTER**  
**Turbo M**



Fiber reinforced repair, concrete replacement, and re-profiling mortar with a shrink and tension free curing, providing high chemical and mechanical resistance. The mortar can be mechanically stressed after 60 minutes. The consistency can be regulated for vertical or horizontal application by the addition of water. With the addition of KÖSTER Turbo additives, the mortar characteristics can be optimized for individual jobsite requirements.

C 517 025 25 kg

Consumption: approx. 1.9 kg / ltr void as repair mortar

## KÖSTER Betomor Light 88



Specially designed light weight mortar for repair- and re-profiling work in overhead and vertical areas. Shrink-free, high compressive strength, waterproof. Suitable for all mineral substrates.

Consumption: approx. 0.88 kg/ltr void

C 530 018

18 kg

## KÖSTER Repair Mortar NC



Suitable for large re-profiling and repair works, has excellent workability characteristics and adhesion to old and new mineral building substrates. KÖSTER Repair Mortar NC is characterized by high chemical and mechanical resistance and compressive strength. Fiber reinforced. Also suitable as substrate preparation for corrosion protection with KÖSTER PSM.



### Consumption

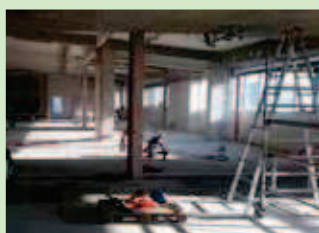
approx. 1.9 kg/ ltr void as repair mortar  
approx. 19 kg / sqm as plaster

### Article No.

C 535 025

### Packaging

25 kg



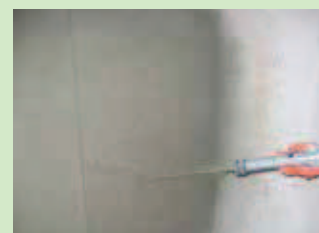
Restoration of support beams



Bridge restoration



Large surface restoration



Spray application

## KÖSTER Sewer and Shaft Mortar



Water tight, fast curing and fast setting restoration mortar specially designed for sewers and shafts. KÖSTER Sewer and Shaft Mortar develops a high compressive strength, is fiber reinforced, very easy to apply and workable even under flowing water. Approved for drinking water environments.

Consumption: approx. 1.8kg/ltr void

C 590 025

25 kg

C 590 040

40 x 25 kg  
(1,000 kg)

## KÖSTER Turbo Binding Agent



Fast curing special cement, developing a very high early strength. The material can be worked over quickly, providing low shrinkage and early loading capacity. During production approximately 30% less CO<sub>2</sub> is released as compared to a pure portland cement. Fields of application: For the production of early to use screeds, the fast restoration of concrete areas such as floor slabs, streets and drive ways.

Consumption: approx. 1.9 kg / ltr void as repair mortar

C 716 025

25 kg

**KÖSTER**  
**Turbo Super Plasticizer**



Additive for the KÖSTER Turbo System. For the adjustment of the mortar consistency of the KÖSTER Turbo System to individual requirements on the construction site.

C 717 065

65 g

Consumption: One pack per 25 kg KÖSTER Turbo F / M

**KÖSTER**  
**Turbo Retarding Agent**



Additive for the KÖSTER Turbo System. For the adjustment of the mortar consistency of the KÖSTER Turbo System to individual requirements on the construction site.

C 718 025

25 g

Consumption: One pack per 25 kg KÖSTER Turbo F / M

**KÖSTER**  
**Turbo Corrosion Protection**



Additive for the KÖSTER Turbo System. Makes the KÖSTER Turbo System components suitable for direct contact with reinforcement steel. The mortar can be used as a finishing layer or as a slurry.

C 719 100

100 g

Consumption: approx. 1.9 kg / ltr void as repair mortar

**KÖSTER**  
**Fast Setting Cement**



Mineral setting accelerator as an additive for cement based plasters, screeds, and masonry mortars. For controlling the curing time.

C 720 020

20 kg

Consumption: according to desired setting time

**KÖSTER**  
**BDM**



Crystallizing, chloride free sealing agent for the integral waterproofing of concrete. KÖSTER BDM combines all three important characteristics for integral waterproofing. KÖSTER BDM reduces the water absorbency of the concrete, increases its compressive strength and resistance against chemical attack. It is free of corrosive ingredients and is non-sensitive to mechanical damage to the surface.

C 731 000

1,000 kg

C 731 030

30 kg

Consumption: 2 % (Mass) of cement content

**KÖSTER**  
**Mortar Sealing Liquid**



Liquid mortar additive. Chloride free, plasticizing sealing agent for mortars, cement and lime cement plasters. Reduces the water absorption and the capillary absorbency considerably. For making mortars and plasters resistant to pressurized water.

Consumption: approx. 3 kg per 100 ltr mixing water

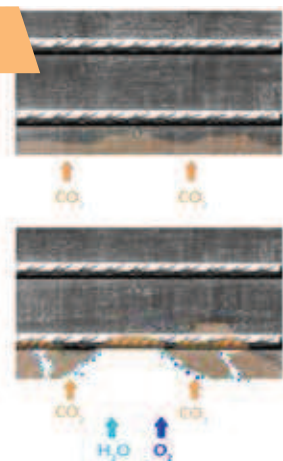
Article No. Packaging

C 790 010

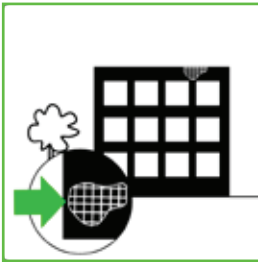
10 kg

## GOOD TO KNOW: Carbonation

Carbonation of concrete is a chemical reaction which occurs near the surface of concrete. Calcium hydroxide  $\text{Ca(OH)}_2$  is formed during cement hydration. This provides healthy concrete its alkaline environment with a pH value of  $> 12.6$  and leads to the formation of a passivation layer. This layer formed of iron hydroxide  $\text{Fe(OH)}_2$  protects reinforcement steel from corrosion. Carbonation occurs when calcium hydroxide  $\text{Ca(OH)}_2$  reacts with carbon dioxide  $\text{CO}_2$  in the air to form calcium carbonate  $\text{CaCO}_3$ . The continuous consumption of  $\text{Ca(OH)}_2$  leads to a drop in pH levels causing the passivation layer that usually covers and protects reinforcement steel from corrosion to become unstable. As a result, carbonation leads to corrosion and the formation of rust. On the other hand, carbonation results in a decrease of the porosity and increases the compressive strength of concrete. Carbonation occurs in concrete whenever carbon dioxide is present and is not harmful to concrete or cement stone.



## Concrete protection and repair



Damaged concrete requires treatment in order to restore the buildings integrity. Exposed steel reinforcement must be protected from corrosion. The original structure is repaired using mineral products.

### Concrete repair

Surface levelling and smoothing  
(C 510) KÖSTER C-Coat

Concrete repair  
(overhead area)

(C 530) KÖSTER Betomor Light 88

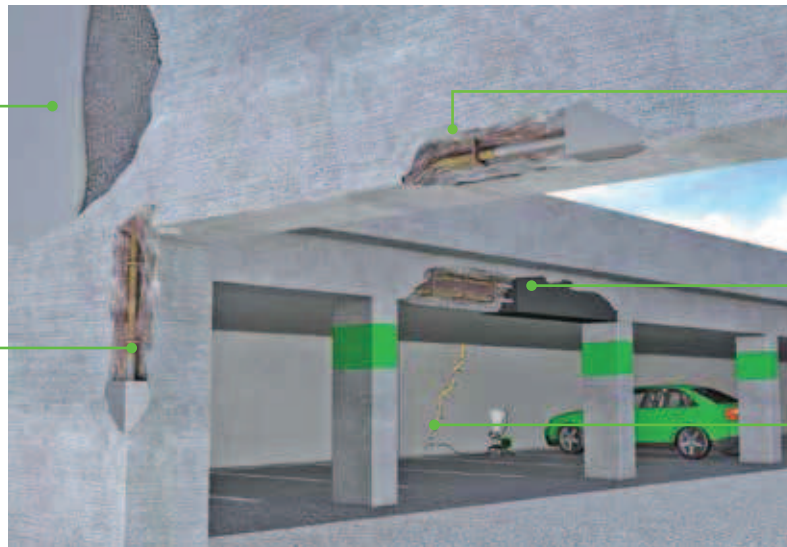
Concrete repair  
(large areas)

(C 535) KÖSTER Repair Mortar NC  
+ (C 155/C 255) KÖSTER Z 1 / Z 2

Repair of structural cracks

(IN 231) KÖSTER KB-Pox IN

Concrete repair  
(C 500) KÖSTER Betomor Multi A



In case of small concrete repairs and maintenance a fast and easy solution is to apply the multi-talent KÖSTER Betomor Multi A. KÖSTER Betomor Multi A is a material for corrosion protection and concrete replacement. An additional corrosion protection is not required. KÖSTER Betomor Multi A replaces the bonding agent, the repair mortar and the finishing layer. The material is applied onto the prepared, stable substrate which must also be free of separating agents and rust.

For application overhead KÖSTER Betomor Light 88 is ideally suitable.

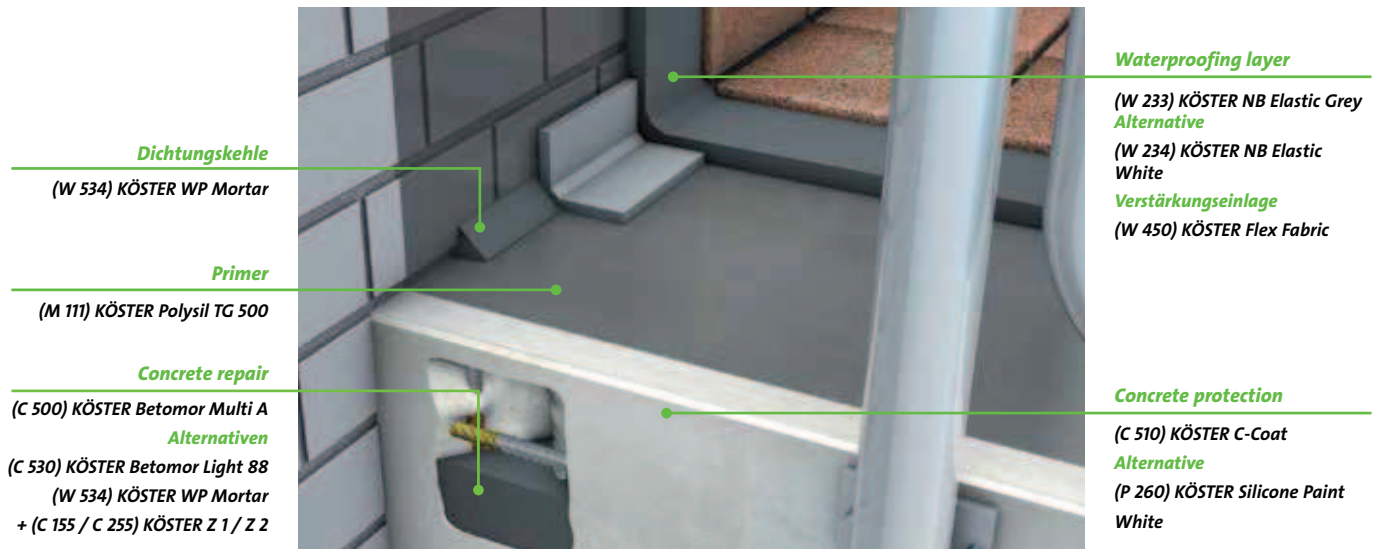
Repair and maintenance of concrete surfaces is done with KÖSTER C-Coat. KÖSTER C-Coat is a high quality finishing layer for levelling and smoothing concrete surfaces.

For re-profiling and concrete replacement in larger areas, KÖSTER Repair Mortar NC is applied. It is suitable for trowel application and can also be spray applied. The mortar is applied onto the prepared, stable substrate which must also be free of bond inhibiting agents. Reinforcement steel has to be cleaned, and corrosion protection and bonding agent KÖSTER Z1 / Z2 is applied.

Non water bearing cracks are sealed with KÖSTER KB-Pur IN 3. This injection resin has excellent bonding characteristics to concrete crack flanks and is used for the structural bonding of building elements.

Always adhere to the specifications in the respective Technical Data Sheets.

## Concrete repair of balconies and terraces



Maintenance of concrete, e.g. repair of balconies and terraces normally requires corrosion protection for the reinforcement steel, a bonding agent, repair mortar and a finishing layer.

KÖSTER Betomor Multi A fulfils all of these requirements in one product. The advantage is that only one product is needed for the renovation and provides an easier calculation of the required amount and management of logistics. Concrete repair of building elements can be quickly and easily done with KÖSTER Betomor Multi A, for overhead application KÖSTER Betomor Light 88 is ideal due to its density of  $0.88 \text{ g / cm}^3$ .

Maintenance of concrete surfaces is done with KÖSTER C-Coat. KÖSTER C-Coat is a high quality

finishing layer for levelling and smoothing of concrete surfaces. KÖSTER Silicone Paint White is an optimal decorative paint coating for concrete surfaces.

The elastic and crack bridging waterproofing material KÖSTER NB Elastic (Grey or White) is applied as the waterproofing layer on balconies and terraces. The material is resistant to foot traffic or can be covered with tiles. In the wall / floor junction and in areas in danger of cracking KÖSTER Flex Fabric is embedded between the two waterproofing layers. Fillets are made with KÖSTER Repair Mortar Plus.

Always adhere to the specifications in the respective Technical Data Sheets.



***SL Self leveling underlayments***

*Self leveling mineral underlayments, floor  
patching materials, corresponding primers*

**SL**

## KÖSTER VAP I 06



Ideal primer on cured KÖSTER VAP I Systems for the subsequent installation of all cementitious self-leveling underlayments. KÖSTER VAP I 06 Primer is a unique, water based, single component material for priming absorbent and non-absorbent substrates. Suitable as a primer under terrazzo, marble, and ceramic tiles.

Consumption: approx. 70 – 100 g/sqm (depending on the substrate)

Article No. Packaging

SL 131 009 9.5 kg

## KÖSTER SL Primer



Low viscosity bonding bridge with a slightly sticky surface. Reduces the absorbency of mineral surfaces and equalizes differential absorbency rates in the substrate. Reduces bubble formation when working with self leveling underlayments. Solvent, plasticizer, and filler free. After application the product is water resistant and will not be washed or rained away after curing.

Consumption: approx. 50 - 150 g / sqm (depending on the substrate)

SL 189 005 5 kg

## KÖSTER VGM Fast

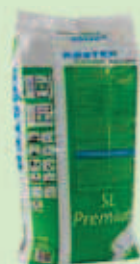


Fast curing grout mortar with high final compressive and flexural strength and very high slump flow for all construction and repair applications. Ready to receive traffic after 3 hours. Fields of application include road surfaces, warehouse ramps, man holes or as a grout for installations and anchor holes.

Consumption: approx. 1.9 kg/ltr void

SL 251 025 25 kg

## KÖSTER SL Premium



High quality, fast setting mineral underlayment that hardens tension free and provides a smooth, level surface ready to receive subsequent flooring systems.

For interior use. Hardens within a few hours to a smooth, strong, and multifunctional leveling layer. KÖSTER SL Premium is easily applied and suitable for casting and pumping. The material is free-flowing and self leveling and may be applied onto a variety of substrates. KÖSTER SL Premium hardens crack free and fast with shrinkage reduction of up to 90%.



### Consumption

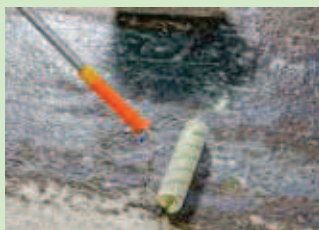
approx. 1.5 kg / m<sup>2</sup> per mm layer thickness

### Article No.

SL 280 025

### Packaging

25 kg



Primer: KÖSTER SL Primer



Easy application



Very robust



Coating after 24 hrs

**KÖSTER**  
**SL**



Economic, fast setting mineral underlayment that hardens tension free to a smooth, level surface ready to receive subsequent flooring systems. It hardens within hours to a smooth, strong, and multifunctional leveling layer. KÖSTER SL is easy to mix and spread, is pour- and pumpable, and is self leveling and highly flowable during application. KÖSTER SL can be used for area covering from 2 to 25 mm and can fill depressions up to 25 mm.

SL 281 025

25 kg

Consumption: approx. 2 kg/sqm per mm layer thickness

**KÖSTER**  
**SL Flex**



Flexible high quality, fast setting, mineral based underlayment with excellent bonding characteristics also on smooth and dense substrates. KÖSTER SL Flex is applicable to a wide variety of substrates such as wood and tiles. It hardens hydraulically and tension free within a few hours to a level, high strength surface that allows for a change in building use, such as carpet or tiles on top of old wooden floors.

SL 284 025

25 kg

Consumption: approx. 1.6 kg powder/sqm per mm layer thickness

**KÖSTER**  
**SL Strong**



Highly resistant self leveling underlayment with hard fillers for interior and exterior use. It provides a very strong surface is directly usable, water and frost resistant. KÖSTER SL Strong cures quickly and tension free within a few hours and forms a smooth underlayment. The material can be applied in layers from 5 to 15 mm and in depressions up to 25 mm. It is not a decorative coating but suitable as a abrasion resistant wearing surface for basements, industrial and warehouse areas.

SL 285 025

25 kg

Consumption: approx. 2 kg/sqm per mm layerthickness

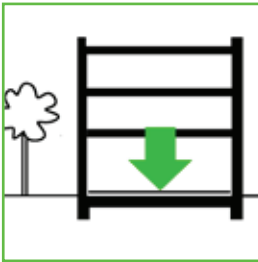
## GOOD TO KNOW: NONPOROUS SUBSTRATES

Wood surfaces, tiles, marble, ceramic, mastic asphalt, steel, or synthetic resin coatings (such as the KÖSTER VAP I 2000 systems) are nonporous substrates. That is why KÖSTER developed KÖSTER VAP I 06 Primer in order to provide maximum adhesion between nonporous substrates such as KÖSTER VAP I 2000 and the cementitious leveling compounds. As a result, even old tile or wooden surfaces can be installed quickly and cost effectively.

Priming a wooden surface with KÖSTER VAP I 06 primer

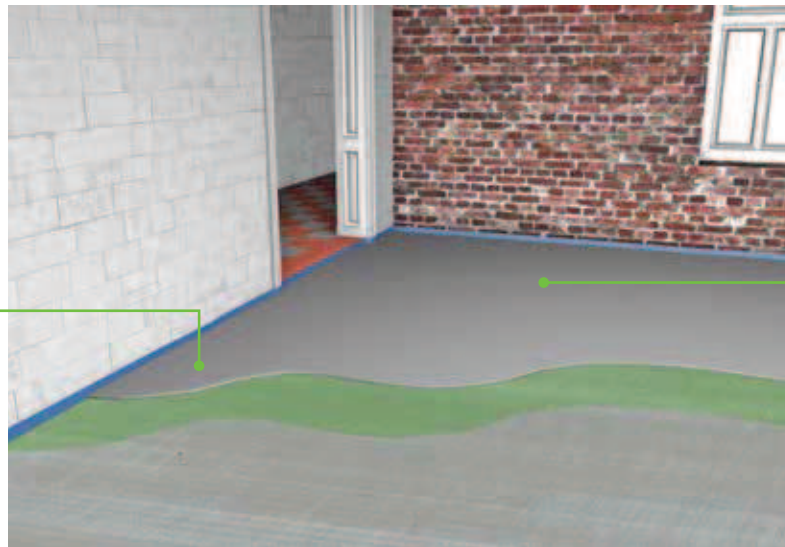


## Self leveling underlayments



Whether installing flooring systems and coatings in new or existing buildings, substrates generally must first be levelled. The goal is to provide a level and highly resilient surface suitable for a broad variety of flooring systems.

### Fast-setting self-leveling underlayment on mineral and non-absorbent substrates



Primer

(SL 189) KÖSTER SL Primer  
(SL 131) KÖSTER VAP I 06

Floor coating

(SL 280) KÖSTER SL Premium

In order to achieve excellent bonding to the following underlayment, the prepared substrate is primed with KÖSTER SL Primer. KÖSTER SL Primer works as a bonding agent to provide a homogeneous absorbency and bind residual dust. It thereby guarantees a consistent and damage free substrate. KÖSTER SL Primer cures rapidly and is thus quickly recoatable. The leveling is then carried out with KÖSTER SL Premium in one working step in layer thicknesses between 2 and 15 mm; in depressions up to 30 mm. KÖSTER SL Premium is a high quality, self-leveling underlayment for the repair of concrete and existing coated floors. The material is characterized by a high compressive strength and cures with almost no shrinkage, thus preventing cracking. Due to its

excellent flowability KÖSTER SL Premium is very easy and safe to work with. Additionally, KÖSTER SL Premium is suitable for non-absorbent substrates, e. g. on floors that have been protected with KÖSTER VAP I® 2000 for moisture control, on existing epoxy coatings or even tiles. As a bonding agent, KÖSTER VAP I® 06 Primer is used. KÖSTER SL Premium allows for an early use after application: After 3 hours foot traffic is allowed, subsequent flooring systems can be installed after 5 hours, and after 24 hours curing time the material is even trafficable.

## Self-leveling underlayment on wooden substrates



Primer

(SL 131) KÖSTER VAP I 06

Floor coating

(SL 284) KÖSTER SL Flex

Hardwood floors are often found in older buildings and present a difficult substrate for additional flooring surfaces during renovation. KÖSTER SL Flex is a mineral based underlayment for application to a wide variety of substrates including concrete floors, screeds, asphalt, steel, tile, or wooden floors. The material is flexible enough to accommodate the movements of the wooden surface as well as high localized pressure resulting from furniture or dropped items. Before installation the substrate has to be free of dust and bonding inhibiting substances. When applying over tongue and groove wooden floors,

cleaning agent and care product residues such as wax must be completely removed, if necessary sanded off. Painted areas must be sanded and subsequently vacuumed. Floor boards must be firmly attached to the joists with screws. Open or wide joints between the boards, defects, and hollows have to be filled with an acrylic jointing compound. The prepared wooden surface is then primed with KÖSTER VAP I® 06 Primer. KÖSTER SL Flex stabilizes the substrate due to its high flexural strength. As a result, the substrate warps and bends less, allowing for the installation of rigid flooring materials such as tile.



## **CT Coatings**

*Floor and corrosion protection coatings,  
moisture control systems*

# CT

## KÖSTER LF-BM



Universal bonding agent with excellent adhesion to all mineral substrates. KÖSTER LF-BM is a 2 component, solventfree, low viscous epoxy resin. Mechanically highly resistant, mixed with dried silica sand also suitable as a mortar. Fields of application include as a primer for mineral substrates, together with silica sand as mortar / putty / levelling compound, casting resin for the fixing of masonry anchors, metal posts, etc.

Consumption: approx. 0.3 - 0.5 kg / sqm as primer; as mortar additive depending on the formulation

Article No. Packaging

CT 160 001 1 kg  
CT 160 006 6 kg  
CT 160 025 25 kg

## KÖSTER Construction Resin



Universal epoxy resin: as primer or bonding agent. Can be filled with kiln dried silica sand. Very good bonding to mineral substrates. Solvent free.

Consumption: approx. 0.3-0.5 kg/sqm (as primer) as mortar additive according to formulation

CT 165 025 25 kg

## KÖSTER ESD 175



KÖSTER ESD 175 is a water based epoxy dispersion for priming floors to be coated with KÖSTER ESD 275 in order to create a ESD protection zone (ESD = Electrostatic discharge; electronic production areas, automotive industry, laboratories). The primer corresponds with the norms DIN EN 61340 and DIN EN 61340-1, supplementary sheet.

Consumption: approx. 0.1 kg/m<sup>2</sup>

CT 175 008 8 kg

## KÖSTER CMC Primer



Transparent primer for the surface preparation of rust free steel before applying KÖSTER CMC.

Consumption: approx. 0.05-0.1 kg/sqm

CT 181 010 10 l

## KÖSTER EM-VS



Broadly applicable, scratch resistant sealant for wall and floor surfaces against medium mechanical stresses. KÖSTER EM-VS is a 2-component, water based epoxy resin sealant with excellent covering properties. Color approximates RAL 7032 (pebble grey), other colors are available upon request. Fields of application: all types of mineral surfaces in shops, garages, etc.

Consumption: approx. 0.2 - 0.3 kg/sqm per layer

CT 210 008 8 kg

## KÖSTER VAP I 2000



**Vapor barrier for priming unsealed interior concrete floors, e.g. against osmotic action under vapor tight flooring.**

Curing time 12 hours. Fields of application: under epoxy, polyurethane or vapor tight flooring e.g. in gymns, industrial halls or sales rooms. KÖSTER VAP I 2000 is a 2-component, low viscous, solvent-free, transparent special resin.



### Consumption

approx. 0.4 kg / m<sup>2</sup> (0.2 kg / m<sup>2</sup> per layer)

### Article No.

### Packaging

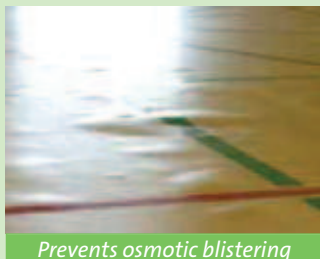
CT 230 002 2.95 kg

CT 230 010 10.13 kg

CT 230 025 25.32 kg



For unsealed concrete floors



Prevents osmotic blistering



Applicable to concrete after 7 days



Recoat after 12 hrs.

## KÖSTER VAP I 2000 FS



Fast setting vapor barrier for priming unsealed interior concrete floors under vapor tight flooring. Curing time 4 hours. The material reduces Moisture Vapor Emission Rates (MVER) and alkalinity to levels acceptable for most resilient, or epoxy flooring systems as well as other vapor tight floorings such as sheet vinyl, VCT, rubber, wood, ceramic, sports, solid backed carpeting, epoxy, ESD and almost all other types of finished flooring.

Consumption: approx. 0.4 kg / m<sup>2</sup> (0.2 kg / m<sup>2</sup> per layer)

### Article No.

### Packaging

CT 233 002 2.96 kg

CT 233 010 10.15 kg

## KÖSTER VAP I 2000 UFS



Fast setting vapor barrier for priming unsealed interior concrete floors under vapor tight flooring. Curing time 2-3 hours. The material reduces Moisture Vapor Emission Rates (MVER) and alkalinity to levels acceptable for most resilient or epoxy flooring systems as well as other vapor tight floorings such as sheet vinyl, VCT, rubber, wood, ceramic, sports, solid backed carpeting, epoxy, ESD and almost all other types of finished flooring.

Consumption: approx. 0.4 kg / m<sup>2</sup> (0.2 kg / m<sup>2</sup> per layer)

### Article No.

### Packaging

CT 234 002 2.96 kg

CT 234 010 10.15 kg

## KÖSTER LF-VL



KÖSTER LF-VL is a solvent free, decorative floor covering with high abrasion resistance for industrial floors. The material is self leveling and provides a high abrasion resistance. Color approximates RAL 7032 (pebble grey), other colors upon request.

Consumption: approx. 1.3 kg / sqm / mm layer thickness (0.5 - 2 mm total layer thickness)

### Article No.

### Packaging

CT 271 006 6,7 kg

CT 271 026 26,8 kg

**KÖSTER**  
**ESD 275**



KÖSTER ESD 275 is a rigid, solvent free, self leveling surface coating for floor areas which are to be protected by an ESD (Electrostatic discharge; electronic production, automotive, laboratories) zone and have to provide resistance against mechanical and chemical stresses. The coating fulfils the norms DIN EN 61340 and DIN EN 61340-1, supplementary sheet 1 and is therewith suitable for electrical grounding of persons.

CT 275 026

26 kg

Consumption: approx. 1.5 kg/sqm per mm layer thickness

**KÖSTER**  
**PS Flex**



Multi-purpose, abrasion resistant elastic three component, floor coating with very good bonding characteristics to all mineral substrates. KÖSTER PS Flex is UV resistant, self leveling, and resistant to high mechanical stresses and stresses caused by diluted acids, alkalis, and salt solutions.

CT 276 010

10 kg

Consumption: approx. 1.8 kg / sqm - 2.3 kg / sqm depending on the field of application)

**KÖSTER**  
**CMC**



Epoxy mortar with very good adhesion to all mineral substrates and to stainless steel. Solvent free. KÖSTER CMC resists high mechanical and chemical stresses and is therefore used as a protective coating for heavy duty corrosion protection. Two component.

CT 280 005

5.3 kg

Consumption: approx. 3.5 - 7 kg / m<sup>2</sup> (layer thickness 2 - 4 mm)

**KÖSTER**  
**Corrosion Protection**



Solvent free, epoxy based corrosion protection coating with excellent adhesion to steel. Mechanically and chemically highly resistant. Two component.

CT 283 006

6 kg

Consumption: approx. 1 kg/sqm in two layers

**KÖSTER**  
**Bridge Coat**



KÖSTER Bridge Coat is a low viscosity epoxy sealant for concrete surfaces (e. g. bridge decks) and other civil engineering structures. It is resistant to high mechanical stresses.

CT 284 005

5.4 kg

CT 284 013

13.5 kg

Consumption: approx. 0.2 kg/sqm

## KÖSTER VE



KÖSTER VE is a corrosion protection and repair mortar on a vinyl ester basis with very good adhesion to all mineral substrates and to stainless steel. It is perfectly suitable for the protection of surfaces in facilities with high chemical and mechanical demands on the coatings such as agricultural concrete elements, waste treatment plants, and chimneys.

Consumption: approx. 4.5 kg / sqm (2 mm layer thickness)

Article No. Packaging

CT 286 006 6.47 kg

## KÖSTER TS transparent



KÖSTER TS transparent is a solvent containing surface sealant for concrete or for KÖSTER Coatings such as KÖSTER EM-VS, KÖSTER UC, KÖSTER LF-VL and the KÖSTER BTG System. KÖSTER TS transparent provides a high chemical, mechanical, and ultraviolet resistance. Due to its fast curing time the surface can be opened for traffic after 24 hours.

Consumption: approx. 0.1 kg / m<sup>2</sup> - 0.2 kg / m<sup>2</sup> (depending on the field of application)

CT 320 001 1 kg  
CT 320 006 6 kg

## KÖSTER Color-Chips



UV and chemically resistant decorative colored chips for broadcasting into the surface of KÖSTER LF-VL, KÖSTER EM-VS, and for use with the KÖSTER BTG System. 2 mm light grey, other colors upon request.

Consumption: as needed

CT 429 005 5 kg  
CT 429 010 10 kg

## KÖSTER Spiked Roller



For de-airing floor coatings.

CT 914 001 Piece

## KÖSTER Gauging rake



For the even installation of e.g. KÖSTER SL Premium and KÖSTER LF-VL. Possible layer thicknesses of 0 - 30 mm are continuously adjustable. Changeable steel sheet and gliding vats made of hardened steel. Width 80 cm.

CT 915 001 Piece

## KÖSTER Resin Roller



Short nap roller for applying thin coatings and sealers.

Article No.	Packaging
CT 916 001 (250 mm)	Piece
CT 917 001 (150 mm)	Piece

## KÖSTER Squeegee



For the application of resin based primers. Complete set.

CT 918 001 (580 mm)	Piece
CT 919 001 (Ersatz)	Piece

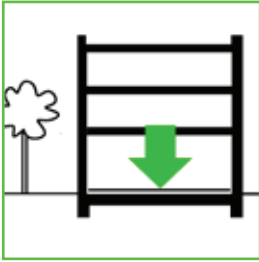
## GOOD TO KNOW: DEW POINT FOR COATINGS

Coatings made out of reaction resins should not be applied below the dew point or at temperatures below +5 °C. In order to avoid defects due to the formation of condensation, a thermometer (to measure the air temperature), a hygrometer (to measure the relative humidity) and a contact thermometer (to measure the surface temperature of the substrate to be coated) should be available on site. This table is available for download at any coating product page online at [www.koester.eu](http://www.koester.eu) These measuring devices should be robust and accurate. They can be obtained through optician and laboratory supply stores.

The dew point is found by first measuring the temperature of the substrate with an IR thermometer. Next, air temperature and relative humidity are measured. The dew point temperature is then found in the dew point table at the intersection of the measured air temperature and measured relative humidity. If this temperature is at least 3 °C above the dew point temperature taken from the below table and if the air and object temperature are above +5 °C, then the work can be carried out safely. If the temperature of the substrate (measured with the contact thermometer) lies close to the dew point or below it, then no coating works should be carried out because the danger of condensation forming is high. This also applies during the coating curing time.

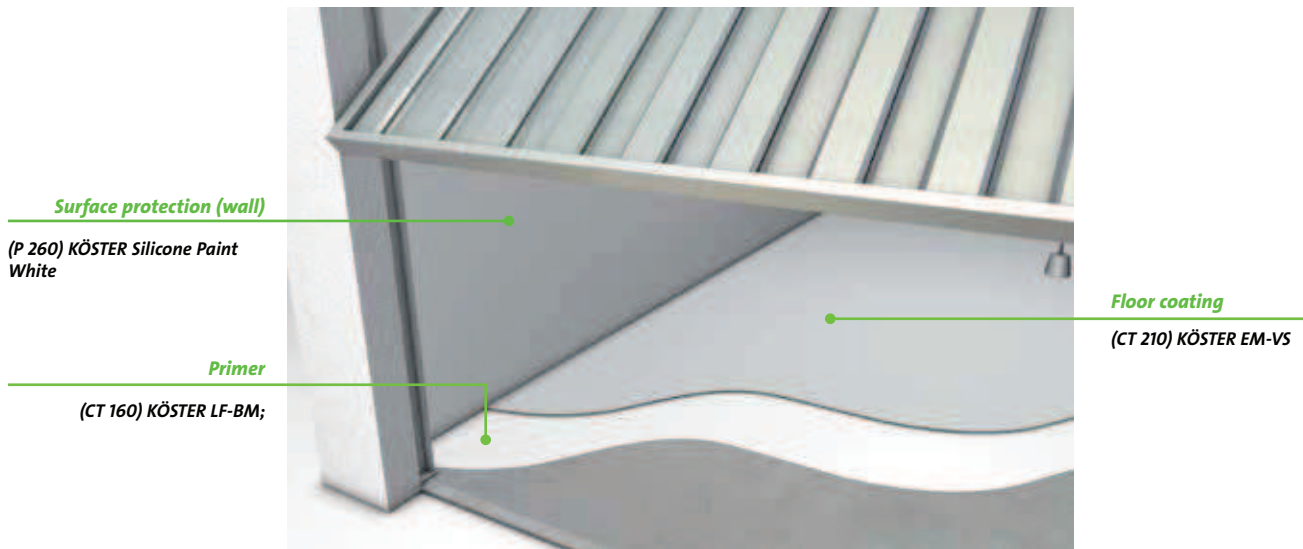


## Floor coatings



Floor coatings, for example on garages, industrial floors or canteen kitchens are not only important for their visual appearance. These floors can be permanently protected against mechanical damage and the penetration of liquids with colored protective coatings.

### Floor coatings which are exposed to moderate stresses

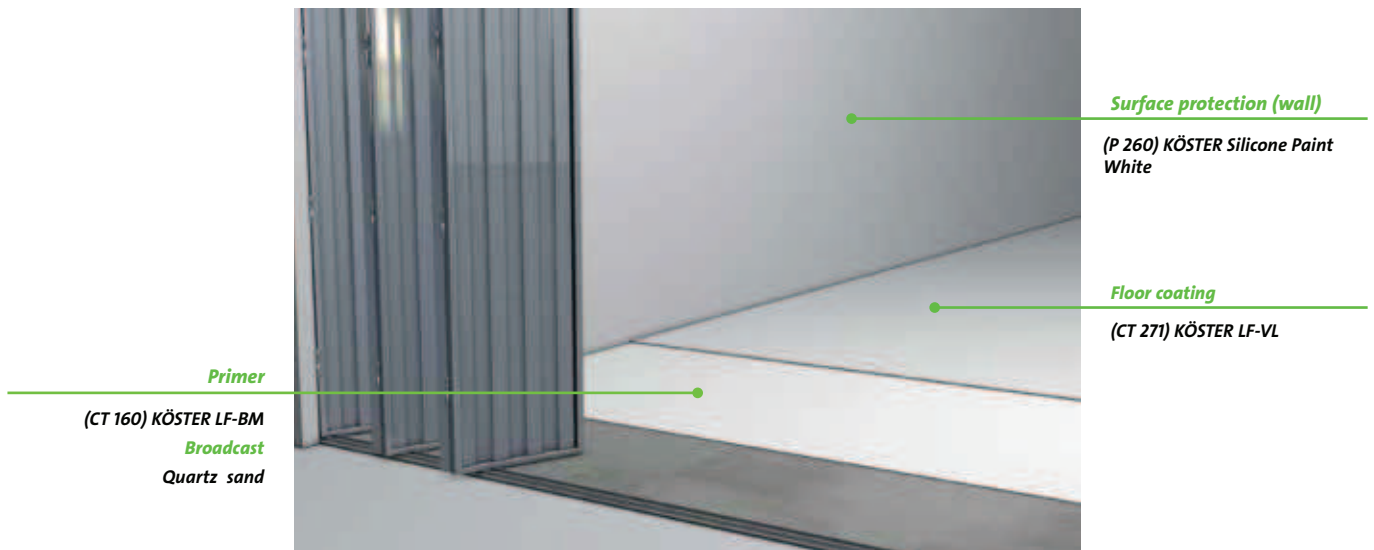


Concrete floors exposed to moderate stresses are ideally and easily coated with the decorative floor sealant KÖSTER EM-VS. The coating is applied in two layers onto the prepared and cleaned concrete surface.

The surface protection of walls is easily done with KÖSTER Silicone Paint White.

Always adhere to the specifications in the respective Technical Data Sheets.

## Floor coatings which are exposed to heavy stresses

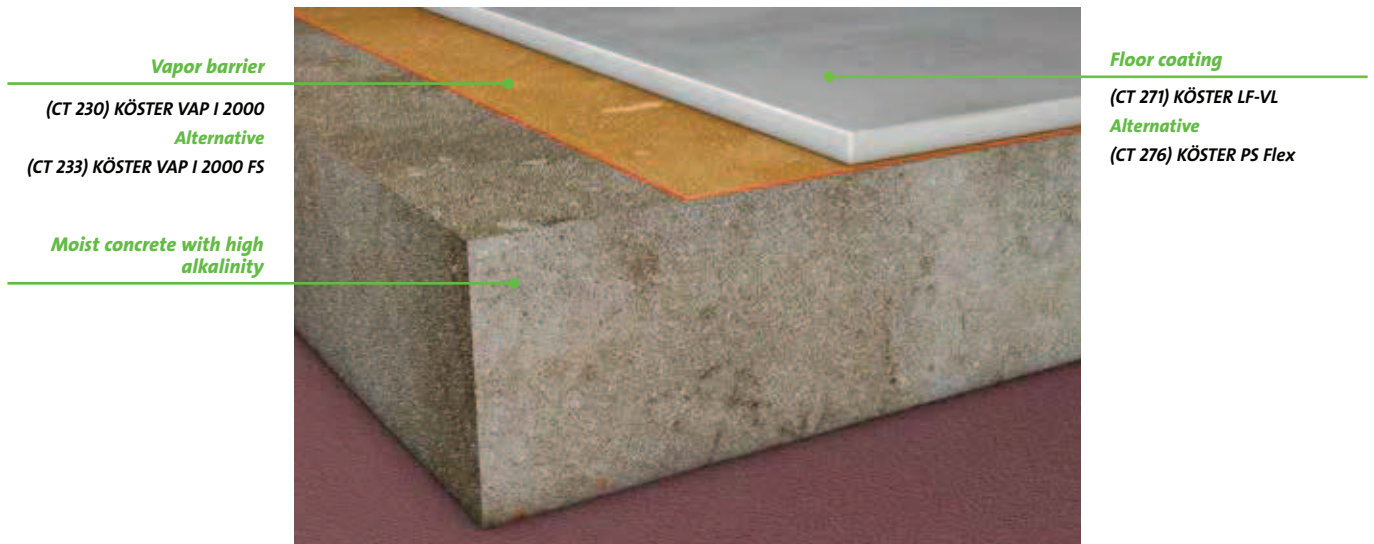


Concrete floors which are exposed to heavy stresses are coated with KÖSTER LF-VL. KÖSTER LF-VL is applied to the prepared, dry, sound and solid substrate free of loose particles and bond inhibiting substances. By mixing KÖSTER LF-VL with quartz sand the coating achieves a high mechanical strength.

The surface protection of walls is easily done with KÖSTER Silicone Paint White.

Always adhere to the specifications in the respective Technical Data Sheets.

## Moisture Mitigation System



Moisture penetration through concrete slabs can cause severe problems for subsequent flooring systems. High concentrations of moisture and alkalinity (levels determined through testing) can lead to the deterioration of flooring adhesives and delamination of coatings by osmotic action. Even with relatively low moisture emissions (MVER), elevated alkalinity can compromise even the toughest flooring system adhesives. To avoid this problem the concrete slab should be primed with a material that will tightly bond to the concrete under these very adverse conditions.

KÖSTER VAP® 2000 is a special material which fulfils

all of these functions; it has very low permeance (ASTM E96 wet: .04-.09), excellent bonding characteristics and is resistant to sustained high alkalinity (pH of 14). The KÖSTER VAP® 2000 vapor reduction system is applied to shot blasted, solid concrete substrates that are free of bond inhibiting substances. After curing, a covering layer (i.e. KÖSTER LF-VL) or any other type of final flooring may be applied. If an underlayment is required use KÖSTER VAP® Finish together with KÖSTER VAP® 06 Primer on top of the moisture mitigation system.

Always adhere to the specifications in the respective Technical Data Sheets.

**Robust, decorative surface coating:  
KÖSTER BTG System (Balconies, Terraces, Commercial areas)**



The KÖSTER BTG System is a visually appealing floor coating system for concrete and screed floors. It is comprised of KÖSTER EM-VS (resin coating), KÖSTER Color Chips (colored enhancement) and KÖSTER TS Transparent (transparent surface sealant). The BTG System protects balconies, terraces, laboratories, offices, and other commercial areas including living spaces against erosion, weathering, and other chemicals. The system stands out due its slip resistance and its ease of cleaning. The epoxy resin sealant, KÖSTER EM-VS, is applied to a prepared substrate in two coats. In order to achieve a slip resistant and decorative colored finish, the coating

is then broadcasted with KÖSTER Color Chips. Lastly, TS Transparent is applied as a transparent final layer. TS Transparent is a high performing surface sealant made out of modern sustainable materials. Due to its good ultraviolet resistance, it can be used both in inside and outside areas. It provides the BTG System with a matte finish and a high-quality surface. In cases where moisture can be trapped behind the coating such as non-waterproofed floor slabs or balconies, KÖSTER VAP I 2000 should be applied to protect against moisture and water vapor. Always adhere to the specifications in the respective Technical Data Sheets.



***J***    ***Joint sealing***  
*Joint sealants, joint tapes*



## KÖSTER KB-Pox Adhesive



High performance adhesive specially designed for fastening KÖSTER Joint Tapes. Develops a high adhesive strength to concrete, mortar, metal, wood and many other building materials. Vertical and overhead application is possible. KÖSTER KB-Pox Adhesive is a 2 component, epoxy based, high performance adhesive. The material is thixotropic, has a pastelike consistency, contains no solvents and has a 100 % solids content.

Consumption: for Joint Tape 20: 2 kg/m  
for Joint Tape 30: 2 – 2.5 kg/m

J 120 005

5 kg

## KÖSTER FS Primer 2C



Fast curing, transparent, solvent free, two component bonding agent. It is used as a primer for the subsequent application of KÖSTER Joint Sealant FS-H and FS-V.

Consumption: approx. 10 - 20 g per m

J 139 200

200 g

## KÖSTER Joint Sealant FS-V



Form stable Polysulfide joint sealant with excellent resistance against mechanical stresses and a high resistance against water, sea water, salt solutions, petroleum and mineral oils. It is rot and root resistant. Available in black and grey. Fields of application include permanently elastic waterproofing of vertical joints in below grade construction such as foundations, sewage treatment plants, garages, tunnels, etc.

Consumption: approx. 1.6 kg/ltr void

J 231 004

4 kg

## KÖSTER Joint Sealant FS-H



Self levelling joint sealant with excellent resistance against mechanical stresses and a high resistance against water, sea water, salt solutions, petroleum and mineral oils. It is rot and root resistant. The rubber-elastic material based on polysulfides is 2-component and elastic. Available in black and grey. Fields of application include permanently elastic waterproofing of horizontal joints in below grade construction such as foundations, sewage treatment plants, garages, tunnels, etc.

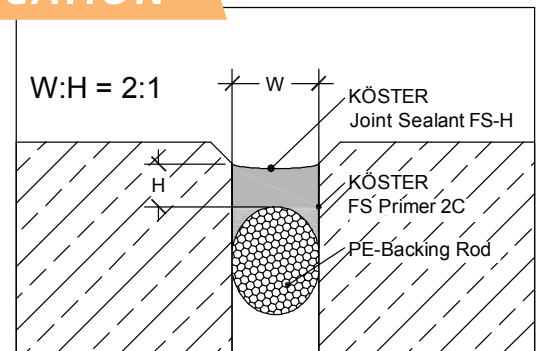
Consumption: approx. 1.6 kg/ltr void

J 232 004

4 kg

## GOOD TO KNOW: JOINT SEALANT APPLICATION

Joint flanks are beveled before the application of the Joint Sealant. The bevel must be at least 10 mm wide and in a 45° angle. To avoid damages to the Joint Sealant caused by movement in multiple directions, the Joint Sealant should only bond to two joint flanks. For this reason a backing is installed for example a foam PE backing rod. The Joint Sealant should be installed so that ratio of joint height: width is 2:1. A detailed table can be found in the Technical Guideline at [www.koester.eu](http://www.koester.eu). To achieve a clean and orderly application, the sides of the joint are taped. Absorbent substrates must be primed with KÖSTER FS Primer 2C twice. Non-absorbent substrates are primed once. The joint is filled approximately 2 hours after applying the KÖSTER FS Primer 2C. The Joint Sealant is smoothed, for example with a spackle. The tape should be removed before the Joint Sealant has hardened.



## KÖSTER KB-Flex 200



**Sealant for pipe and cable penetrations, even in the case of pressurized water.**

KÖSTER KB-Flex 200 is a one component, permanently plastic material and can therefore be directly applied from the cartridge – even in the case of flowing water. The material bonds to a broad variety of substrates, such as concrete, masonry, mortar, plaster and all other mineral building materials, even ceramics, PVC, Polyethylene and Polypropylene.



Consumption	Article No.	Packaging
approx. 1.6 kg/ltr void	J 250 310	310 ml Kartusche
	J 250 530	530 ml Kartusche



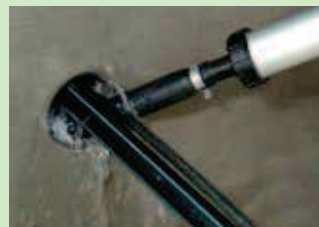
Cabel penetration



Pipe openings



Swimming pool installation



against flowing water

## KÖSTER Joint Tape 20



Thermoplastic tape for sealing expansion and dilatation joints (up to 12 cm) and broad, irregular cracks. KÖSTER Joint Tape 20 is UV resistant, highly elastic and can withstand extreme movements in the joint. The joint tape system consists of KÖSTER Joint Tape and KÖSTER KB-Pox Adhesive, a high performance adhesive for fastening the joint tape to mineral substrates. (d: 1 mm, b: 200 mm)

Article No.	Packaging
J 820 020	20 m

## KÖSTER Joint Tape 30



Thermoplastic tape for sealing expansion and dilatation joints (up to 20 cm) and broad, irregular cracks. KÖSTER Joint Tape 30 is UV resistant, highly elastic and can withstand extreme movements in the joint. The joint tape system consists of KÖSTER Joint Tape and KÖSTER KB-Pox Adhesive, a high performance adhesive for fastening the joint tape to mineral substrates. (d: 1 mm, b: 300 mm)

Article No.	Packaging
J 830 020	20 m

## KÖSTER Special Joint Tape



Cold applied self-adhesive joint tape for integration into area waterproofing made of bitumen thick film sealants (PMBC) and KÖSTER KSK waterproofing membranes. Fields of application include waterproofing and permanent bridging of dilatation, extension and building separation joints. KÖSTER Special Joint Tape has a highly tear resistant mesh, resists high stresses and is immediately waterproof against pressurized water. (d: 2mm, b: 300 mm)

Article No.	Packaging
J 870 010	10 m

**KÖSTER**  
Special Caulking Gun



Cartridge gun for the application of KÖSTER KB-Flex 200 and KÖSTER Crisin 76 Concentrate (530 ml / 850 g cartridge).

Article No. Packaging

J 981 001 Piece

**KÖSTER**  
Connecting Hose and Nozzle



Accessories for the application of KÖSTER KB-Flex 200 with a flexible hose and a 45°-nozzle.

J 982 001 Piece

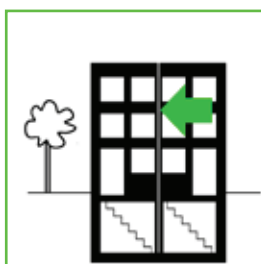
**KÖSTER**  
Caulking Gun



For standard 310 ml cartridges, e. g. KÖSTER KB Flex 200 and KÖSTER Crisin 76 Concentrate

J 989 001 Piece

## Joint sealing



Joints in construction members are designed to accommodate movement. In order to seal such joints effectively the sealants used must be permanently elastic, form stable and UV-resistant. Such sealants will then allow for any future movement which may occur and protect against damage.

## Joint sealing on mineral and metal surfaces

### Sealing vertical joints

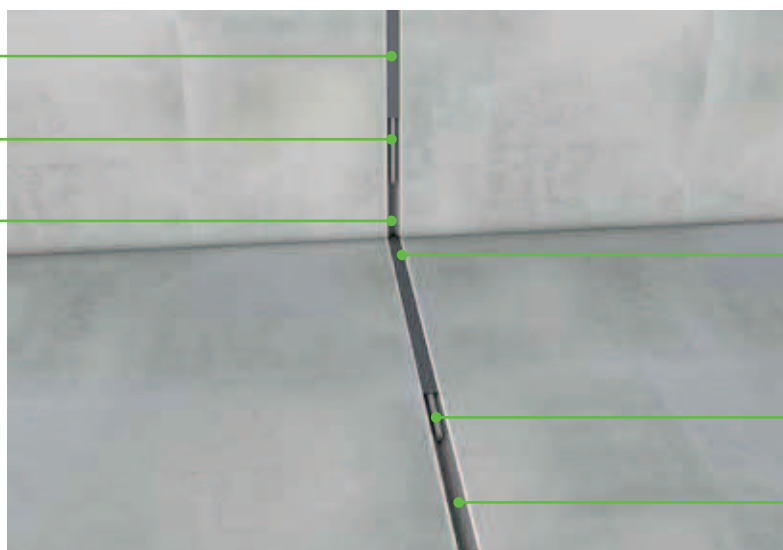
(J 231) KÖSTER Joint Sealant FS-V

### Backing

Common foam cord

### Primer

(J 139) KÖSTER FS Primer 2C



### Sealing horizontal joints

(J 232) KÖSTER Joint Sealant FS-H

Alternatives

(J 231) KÖSTER Joint Sealant FS-V

### Backing

Common foam cord

### Primer

(J 139) KÖSTER FS Primer 2C

Construction joints are exposed to movements caused by thermal or other stresses. To waterproof construction joints permanently an elastic material is required. KÖSTER Joint Sealant FS is a proven joint sealant; it is resistant to mechanical stresses, UV radiation and aging. KÖSTER Joint Sealant FS is also resistant to aggressive chemicals.

It is important when waterproofing construction joints to apply a durable material which will permanently adhere to the joint flanks. The substrate must be stable, clean and dry as well as free of bond inhibiting substances. The substrate is primed with KÖSTER FS Primer.

Optimal distribution of tension is guaranteed when the KÖSTER Joint Sealant FS is connected to just two opposing joint flanks. This allows the material to expand across the construction joint. To separate the joint sealing from the bottom a backer rod (e. g. customary PE-round cord) is installed into the joint before applying the material. To avoid damage caused by tension stresses the joint sealant should be applied at a thickness appropriate to the measurements of the joint. The proportion of the applied sealant should be 1 : 1 to 1 : 2 (height to width of the joint).

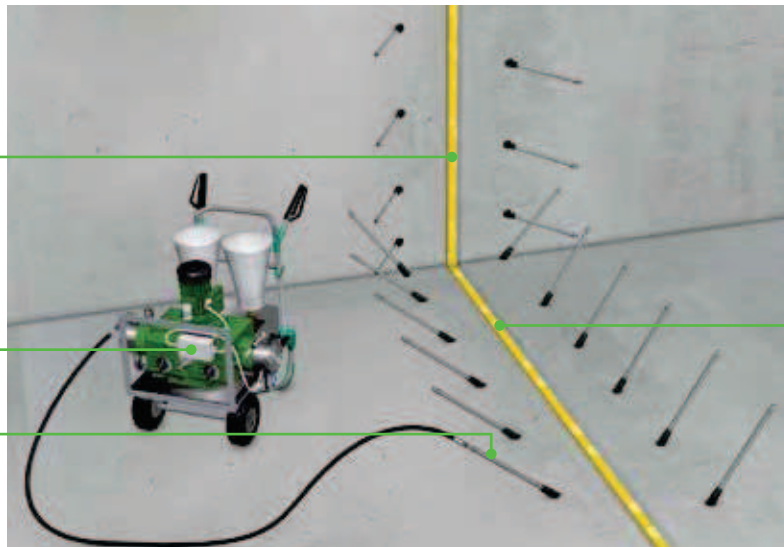
Always adhere to the specifications in the respective Technical Guidelines.

## Joint sealing by pressure injection into dry, damp and water bearing joints

Joint sealing  
(IN 285) KÖSTER PUR Gel

Pump  
(IN 928) KÖSTER Gel Pump

Injection Packer  
(IN 925) KÖSTER Distributor Lance  
Alternatives  
(IN 923) KÖSTER Injection Lance  
(IN 904) KÖSTER Impact Packer 18 Plus



Joint sealing  
(IN 285) KÖSTER PUR Gel

Waterproofing joints which are exposed to water, active leakage or even pressurized water is a challenge because common joint sealing materials don't bond to wet substrates.

KÖSTER KB-Pur Gel is applied by pressure injection into the joint, old joint sealants generally don't have to be removed. KÖSTER KB-Pur Gel reacts with water and creates an elastic waterproofing material. Even flowing water can be stopped with this method.

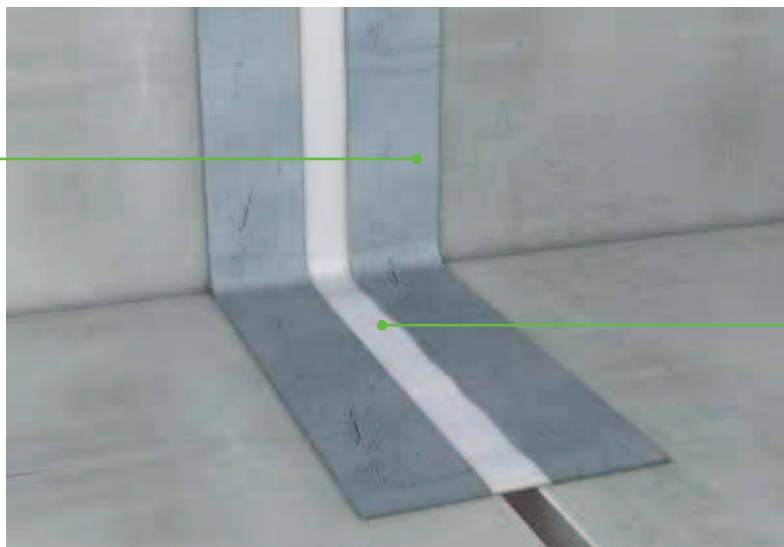
Always adhere to the specifications in the respective Technical Data Sheets.

Because the subsequent sealing and waterproofing of construction joints requires experience and should be analyzed case by case, please contact our technical consultants. They will be glad to answer your questions.

### Joint sealing on dilatation joints and other moving joints

Adhesive

(J 120) KÖSTER KB-Pox Adhesive



Joint Sealing

(J 820) KÖSTER Joint Tape 20

Alternatives

(J 830) KÖSTER Joint Tape 30

Construction joints wider than 35 mm are waterproofed with KÖSTER Joint Tape 20 (20 cm width) or with KÖSTER Joint Tape 30 (30 cm width).

KÖSTER KB-Pox Adhesive is applied onto the stable and prepared substrate. KÖSTER Joint Tape is bonded to both flanks of the joint with the first layer of adhesive. After that the joint tape is embedded into

a second coat of KÖSTER KB-Pox Adhesive. KÖSTER KB-Pox Adhesive has excellent adhesion to concrete and to the KÖSTER joint tape. KÖSTER joint tapes are elastic and tear-resistant.

Always adhere to the specifications in the respective Technical Data Sheets.



## ***B*** Wet room waterproofing

# ***B***

**KÖSTER**  
**BD 50 Primer**



Primer for the KÖSTER BD System on dry or absorbent substrates. Penetrates deeply into the substrate creating an excellent bonding bridge to the subsequent waterproofing. Solvent-free. The KÖSTER BD System is CE certified according to ETAG 022.

Consumption: approx. 0.1-0.25 kg depending on the substrate

B 190 005

5 kg

**KÖSTER**  
**BD 50**



Ready to use, seamless waterproofing for damp and wet rooms with CE certification according to ETAG 022. Highly elastic, waterproof acrylic based material. Solvent-free. Fields of application include under tiles in showers, bathrooms, kitchens, car washes, etc.

Consumption: approx. 1.0 kg/sqm (in two layers)

B 290 010

10 kg

**KÖSTER**  
**Adhesive Mortar**



Multi-purpose, 2-component, frost resistant adhesive mortar for tiling and natural flagstone. For interior and exterior use.

Consumption: approx. 2.0 kg/sqm per mm layer thickness

B 530 033

33 kg

**KÖSTER**  
**BD Flexible Tile Adhesive**



Single component, mineral flexible tile adhesive for all mineral building materials in construction. In combination with the KÖSTER BD System suitable for waterproofing wet rooms. The KÖSTER BD System is CE certified according to ETAG 022.

Consumption: approx. 1.7 kg /sqm per mm layer thickness

B 540 025

25 kg

**KÖSTER**  
**BD Flex Tape K 120**



Joint sealing tape for the secure connection of areas waterproofed with the KÖSTER BD System over joints, wall-floor junctions and areas in danger of cracking. Thin elastomeric strip with protruding mesh for the secure integration into the area waterproofing. Measurements: d: 0,6 mm, b: 120 mm. The KÖSTER BD System is an ETAG 022 certified system for the waterproofing of wetrooms e. g. under ceramic tile.

B 931 010

10 m

B 931 050

50 m

**KÖSTER**  
**BD Inside Corner**



Ready to use, elastic moulded part for the waterproofing of inside corners in the KÖSTER BD System. Made of NBR-rubber with protruding mesh for the secure integration into the area waterproofing. Measurements: l: 60 mm, d: 0,6 mm. The KÖSTER BD System is an ETAG 022 certified system for the waterproofing of wetrooms e. g. under ceramic tile.

**Article No.** **Packaging**  
B 932 001 Piece

**KÖSTER**  
**BD Outside Corner**



Ready to use, elastic moulded part for the waterproofing of outside corners in the KÖSTER BD System. Made of NBR-rubber with an protruding mesh for the secure integration into the area waterproofing. Measurements: l: 60 mm, d: 0,6 mm. The KÖSTER BD System is a ETAG 022 certified system for the waterproofing of wetrooms e.g. under ceramic tile.

B 933 001 Piece

**KÖSTER**  
**BD Wall Sleeve**



Ready to use, elastic moulded part for the waterproofing of pipe penetrations in the KÖSTER BD System. Made of NBR-rubber with an protruding mesh for the secure integration into the area waterproofing. Measurements: 120 mm x 120 mm. The KÖSTER BD System is a ETAG 022 certified system for the waterproofing of wetrooms e.g. under ceramic tile.

B 934 001 Piece

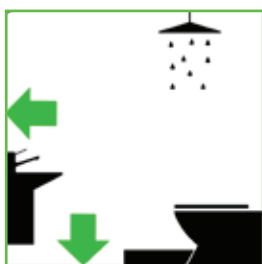
**KÖSTER**  
**BD Floor Sleeve**



Ready to use, elastic moulded part for the waterproofing of floor drains in the KÖSTER BD System. Made of NBR-rubber with an protruding mesh for the secure integration into the area waterproofing. Measurements: 350 mm x 350 mm. The KÖSTER BD System is a ETAG 022 certified system for the waterproofing of wetrooms e.g. under ceramic tile.

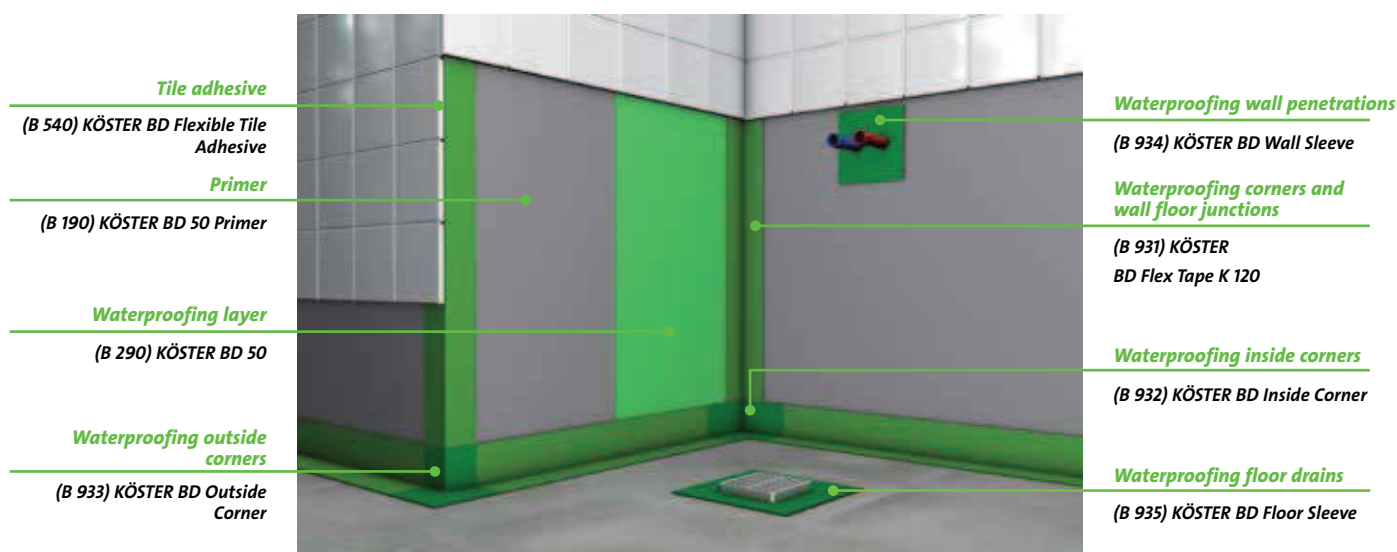
B 935 001 Piece

## Wet room waterproofing



In these sensitive parts of the building, moisture can lead to severe damage to the entire building. Discoloration and tiles which are falling off the substrate are the first visible signs of such damages. Such rooms are waterproofed completely, in order to protect the entire building. The entire wall and floor area is seamlessly waterproofed. The waterproofing layer must be able to bridge possible cracks.

### Wet room waterproofing with liquid synthetics



Only a few building elements are so constantly exposed to water as kitchens and bathrooms. In these cases a professional and crack bridging waterproofing material is required. Furthermore it must be stable enough so that tiles can be applied on top of it.

The KÖSTER BD-System is a complete system for water proofing underneath tiles according to ETAG 022. The dry and stable substrate is primed with KÖSTER BD 50 Primer. As a waterproofing layer KÖSTER BD 50 is applied. In corners and connection

areas the pre-formed waterproofing elements KÖSTER BD Inside Corner, KÖSTER BD Outside Corner, KÖSTER BD Wall Sleeve and the KÖSTER BD Floor Sleeve are embedded into the waterproofing layer. At wall / floor junctions and joints KÖSTER BD Flex Tape K 120 is embedded. In areas where a reinforcement is embedded, movements won't cause damage to the waterproofing material.

Always adhere to the specifications in the respective Technical Data Sheets.



## **P Façade protection and paints**

***P***

**KÖSTER**  
**Façade Cleaning Cream**



Liquid, pasty façade cleaning cream on an acid basis. It removes scaling and efflorescence from mineral substrates. Due to KÖSTER Façade Cleaning Cream's consistency the material provides a long contact time to the substrate which helps to dissolve tough stains and soiling.

Consumption: approx. 0,1 - 0,25 g/sqm depending on the substrate

**Article No.**      **Packaging**  
P 110 005              5 kg

**KÖSTER**  
**Façade Cream**



Protection of mineral building structures and façades from water and driving rain. Solvent free, colorless after curing, water repellent, diffusion open hydrophobization cream for brick, clinker, natural stone and mineral plasters.

Consumption: approx. 0,1 - 0,25 g/sqm depending on the substrate

P 200 005              5 l  
P 200 015              15 l

**KÖSTER**  
**Siloxan**



Façade hydrophobization for the protection of mineral building materials from water and driving rain. Sprayable, colorless after curing and open to water vapor diffusion.

Consumption: approx. 0.2-1.0 ltr/sqm depending on the substrate

P 240 010              10 l

**KÖSTER**  
**Silicone Paint White**



Ideal for use on restoration plasters. Diffusion open, matt silicone resin paint with a special water repelling effect.

Consumption: approx. 0.2 ltr/sqm per layer

P 260 010              10 l

**KÖSTER**  
**Acrylic Paint**



High quality, matt, water-thinnable façade paint for a decorative final coating. The material is highly resistant, has good coverage, and is suited as a structure-preserving coating. White, can be colored.

Consumption: approx. 0.2 ltr/sqm per layer

P 262 015              15 kg

**KÖSTER**  
**Concrete Elast**



Crack bridging, matt, flexible façade paint for mineral substrates, e. g. concrete. KÖSTER Concrete Elast protects concrete from water and reduces CO2 permeability. Contains special ingredients to improve bonding on wet substrates, hydrophobization, and the prevention of swelling and blistering. For the protection and design of façades. Not suitable for trafficable areas or interior use. White, can be colored.

Article No.	Packaging
P 264 015	15 kg

Consumption: approx. 0.2 ltr/sqm per layer

**KÖSTER**  
**MF 1**

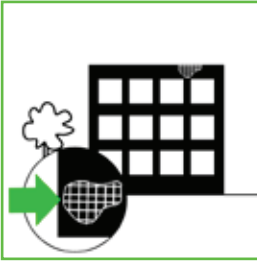


White mineral paint suitable for interior and exterior areas. KÖSTER MF 1 contains a cement based binder leading to a very robust and durable material. The color shows, depending on the application process (e. g. brush or roller) a slight structure. The material is delivered in powder form and mixed with water. KÖSTER MF 1 is effective against algae, mold and fungi and free of fungicidal toxins. Especially suitable for exterior plastered surfaces. Open to vapor diffusion.

P 280 012	12 kg
P 280 020	20 kg

Consumption: approx. 0.8 kg/sqm per coating

## Façade Protection



Climatic influences and the resulting penetration of moisture into the substrate often lead to damages to the façade. In order to protect facades made of mineral or cementitious building materials, impregnations are used which make the surface water repellent. These hydrophobic agents penetrate deeply into the substrate and dry without leaving residues so that the visual appearance of the façade is not affected by the impregnation.

### Protecting façades made of mineral building materials



#### Cleaner

(P 110) KÖSTER Façade Cleaning Cream

#### Surface protection

(P 200) KÖSTER Façade Cream

Alternative

(P 240) KÖSTER Siloxan

KÖSTER façade protection systems prevent masonry and concrete from liquid water ingress (rain or splash water, condensate) but at the same time water vapor is still able to escape from the façade. That way long term moisture damage can be avoided.

KÖSTER Façade Cream is a solvent-free pasty hydrophobization material. It is applied as a film using a roller or brush and penetrates deep into mineral substrates.

KÖSTER Siloxan in contrast is a liquid and can therefore be sprayed onto the façade or alternatively brush applied.

Always adhere to the specifications in the respective Technical Data Sheets.



***RT / RE      TPO and ECB Roofing membranes***  
***(Page 96 - 99)***

***R              Roof waterproofing (Page 100 - 102)***

***R***

## TPO and ECB Roofing membranes

KÖSTER TPO Roofing Membranes can be installed by mechanical fastening, loose laying, or full surface adhesion on flat or green roofs. They stand out due to their excellent application and outstanding mechanical properties as well as through their durability and sustainability. KÖSTER produces both thermoplastic polyolefine (TPO) and ethylene copolymer bitumen membranes. The standard color of KÖSTER TPO membranes is light grey, for ECB Membranes the standard color is black.



- m: mechanical fastening
- l: loose laying with ballast
- b: full surface or strip adhesion
- u: unreinforced (homogenous) roofing membrane for creation of drainage and ventilation flanges, and corner reinforcements
- 2S: double-sided welding edge



full surface adhesion



mechanical fastening



under ballast / green roofs



complex geometries

### Roofing membrane with embedded glass fleece

Product name	Thickness	Width	Application	Article No.	Length
KÖSTER TPO 1.6 - 2.10 m	1.6 mm	2.10 m	m,l	RT 816 210	20 m
KÖSTER TPO 1.6 - 1.50 m	1.6 mm	1.50 m	m,l	RT 816 150	20 m
KÖSTER TPO 1.6 - 1.05 m	1.6 mm	1.05 m	m,l	RT 816 105	20 m
KÖSTER TPO 1.6 - 0.75 m	1.6 mm	0.75 m	m,l	RT 816 075	20 m
KÖSTER TPO 1.6 - 0.525 m	1.6 mm	0.525 m	m,l	RT 816 052	20 m
KÖSTER TPO 1.6 - 0.35 m	1.6 mm	0.35 m	m,l	RT 816 035	20 m
KÖSTER TPO 1.6 - 0.25 m	1.6 mm	0.25 m	m,l	RT 816 025	20 m
KÖSTER TPO 1.8 - 2.10 m	1.8 mm	2.10 m	m,l	RT 818 210	20 m
KÖSTER TPO 1.8 - 1.50 m	1.8 mm	1.50 m	m,l	RT 818 150	20 m
KÖSTER TPO 1.8 - 1.05 m	1.8 mm	1.05 m	m,l	RT 818 105	20 m
KÖSTER TPO 1.8 - 0.75 m	1.8 mm	0.75 m	m,l	RT 818 075	20 m
KÖSTER TPO 1.8 - 0.525 m	1.8 mm	0.525 m	m,l	RT 818 052	20 m
KÖSTER TPO 1.8 - 0.35 m	1.8 mm	0.35 m	m,l	RT 818 035	20 m
KÖSTER TPO 1.8 - 0.25 m	1.8 mm	0.25 m	m,l	RT 818 025	20 m
KÖSTER TPO 2.0 - 2.10 m	2.0 mm	2.10 m	m,l	RT 820 210	20 m
KÖSTER TPO 2.0 - 1.50 m	2.0 mm	1.50 m	m,l	RT 820 150	20 m
KÖSTER TPO 2.0 - 1.05 m	2.0 mm	1.05 m	m,l	RT 820 105	20 m
KÖSTER TPO 2.0 - 0.75 m	2.0 mm	0.75 m	m,l	RT 820 075	20 m
KÖSTER TPO 2.0 - 0.525 m	2.0 mm	0.525 m	m,l	RT 820 052	20 m
KÖSTER TPO 2.0 - 0.35 m	2.0 mm	0.35 m	m,l	RT 820 035	20 m
KÖSTER TPO 2.0 - 0.25 m	2.0 mm	0.25 m	m,l	RT 820 025	20 m

**Roofing membrane with polyester fleece backing**

<i>Product name</i>	<i>Thickness</i>	<i>Width</i>	<i>Application</i>	<i>Article No.</i>	<i>Length</i>
KÖSTER TPO 1.6 F - 1.50 m	1.6 mm	1.50 m	m,l,b	RT 816 150 F	20 m
KÖSTER TPO 1.6 F - 1.05 m	1.6 mm	1.05 m	m,l,b	RT 816 105 F	20 m
KÖSTER TPO 1.6 F 2S - 1.05 m	1.6 mm	1.05 m	m,l,b, 2 S	RT 816 105 F2S	20 m
KÖSTER TPO 1.6 F - 0.525 m	1.6 mm	0.525 m	m,l, b	RT 816 052 F	20 m
KÖSTER TPO 1.8 F - 1.50 m	1.8 mm	1.50 m	m,l,b	RT 818 150 F	20 m
KÖSTER TPO 1.8 F - 1.05 m	1.8 mm	1.05 m	m,l, b	RT 818 105 F	20 m
KÖSTER TPO 1.8 F 2S - 1.05 m	1.8 mm	1.05 m	m,l, b, 2 S	RT 818 105 F2S	20 m
KÖSTER TPO 1.8 F - 0.525 m	1.8 mm	0.525 m	m,l, b	RT 818 052 F	20 m
KÖSTER TPO 2.0 F - 2.10 m	2.0 mm	2.10 m	m,l, b	RT 820 210 F	20 m
KÖSTER TPO 2.0 F - 1.50 m	2.0 mm	1.50 m	m,l, b	RT 820 150 F	20 m
KÖSTER TPO 2.0 F - 1.05 m	2.0 mm	1.05 m	m,l, b	RT 820 105 F	20 m
KÖSTER TPO 2.0 F 2S - 1.05 m	2.0 mm	1.05 m	m,l, b, 2 S	RT 820 105 F2S	20 m
KÖSTER TPO 2.0 F - 0.525 m	2.0 mm	0.525 m	m, l	RT 820 052 F	20 m

**Unreinforced, homogenous TPO membrane**

<i>Product name</i>	<i>Thickness</i>	<i>Width</i>	<i>Application</i>	<i>Article No.</i>	<i>Length</i>
KÖSTER TPO 2.0 U - 0.525 m	2.0 mm	0.525 m	u	RT 820 052 U	20 m

**ECB membrane with embedded glass fleece**

<i>Product name</i>	<i>Thickness</i>	<i>Width</i>	<i>Application</i>	<i>Article No.</i>	<i>Length</i>
KÖSTER ECB 2.0 - 2.10 m	2.0 mm	2.10 m	m,l	RE 820 210	20 m
KÖSTER ECB 2.0 - 1.50 m	2.0 mm	1.50 m	m,l	RE 820 150	20 m
KÖSTER ECB 2.0 - 1.05 m	2,0 mm	1.05 m	m,l	RE 820 105	20 m
KÖSTER ECB 2.0 - 0.75 m	2.0 mm	0.75 m	m,l	RE 820 075	20 m
KÖSTER ECB 2.0 - 0.525 m	2.0 mm	0.525 m	m,l	RE 820 052	20 m
KÖSTER ECB 2.0 - 0.35 m	2.0 mm	0.35 m	m,l	RE 820 035	20 m
KÖSTER ECB 2.0 - 0.25 m	2.0 mm	0.25 m	m,l	RE 820 025	20 m

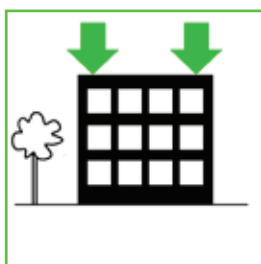
**ECB membrane with polyester fleece backing**

<i>Product name</i>	<i>Thickness</i>	<i>Width</i>	<i>Application</i>	<i>Article No.</i>	<i>Length</i>
KÖSTER ECB 2.0 F - 2.10 m	2.0 mm	2.10 m	m,l, b	RE 820 210 F	20 m
KÖSTER ECB 2.0 F - 1.05 m	2.0 mm	1.50 m	m,l, b	RE 820 150 F	20 m
KÖSTER ECB 2.0 F 2S - 1.05 m	2.0 mm	1.05 m	m,l, b, 2 S	RE 820 105 F2S	20 m
KÖSTER ECB 2.0 F - 0.525 m	2.0 mm	0.525 m	m,l, b	RE 820 052 F	20 m

**Unreinforced, homogenous ECB membrane**

<i>Product name</i>	<i>Thickness</i>	<i>Width</i>	<i>Application</i>	<i>Article No.</i>	<i>Length</i>
KÖSTER ECB 2.0 U - 1.05 m	2.0 mm	1.05 m	u	RE 820 105 U	20 m

## Roofing membranes



Due to their position, roofs are exposed to considerable temperature and weather related stresses. The formation of cracks due to tension in the waterproofing layer can be the consequence. Safe retroactive waterproofing is required. It is vital to apply products which are characterized by great elasticity and high UV-resistance.

## Roof waterproofing with mechanically fastened membranes

### KÖSTER TPO Membrane

(RT 816) KÖSTER TPO 1.6

#### Alternatives

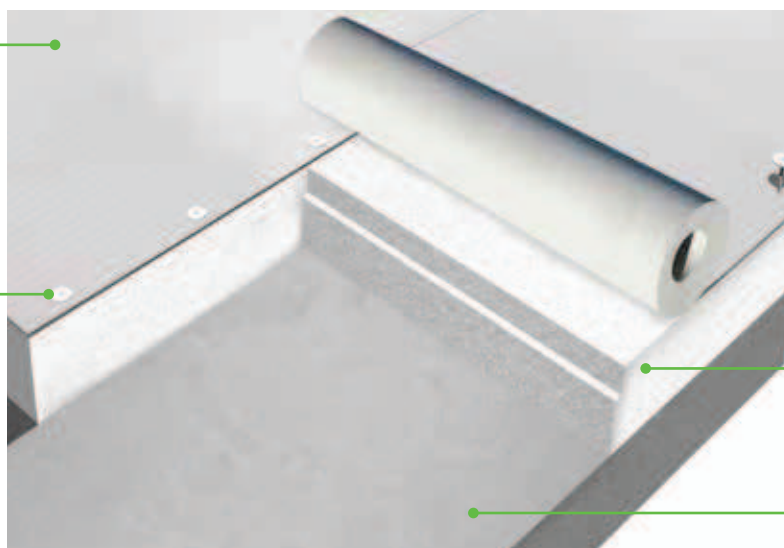
(RT 818) KÖSTER TPO 1.8

(RT 820) KÖSTER TPO 2.0

(RE 820) KÖSTER ECB 2.0

### Supporting construction

see KÖSTER TPO Product range



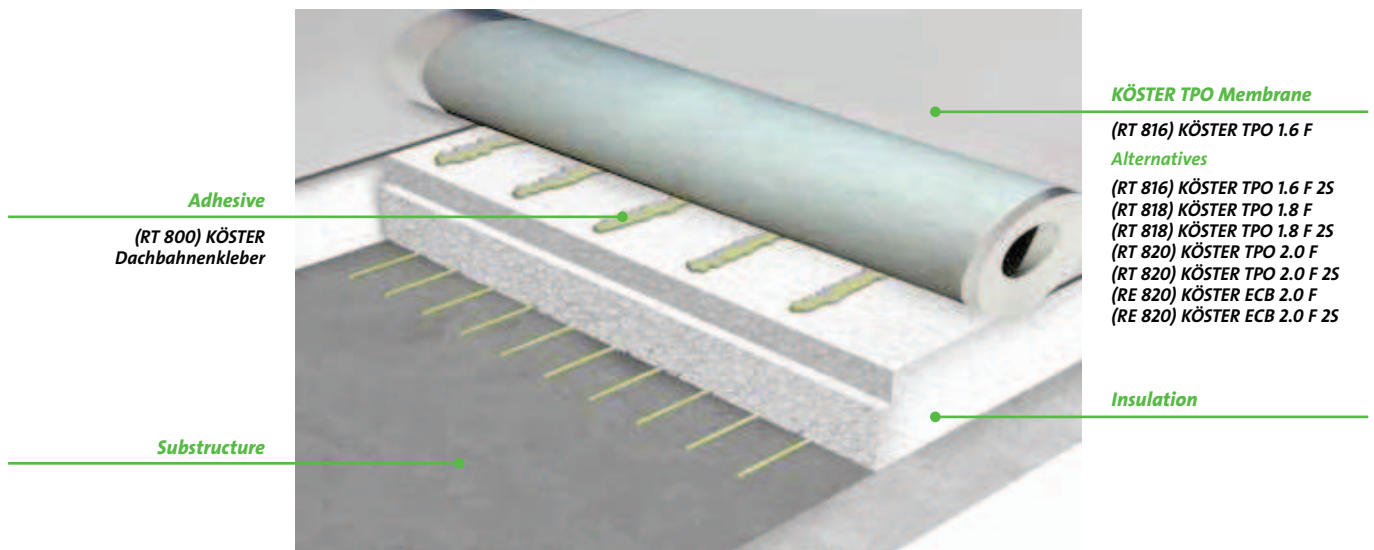
Insulation

Substructure

The most common method of installing TPO membranes is through mechanical fastening. The membrane is mechanically fastened to the roof structure, which can consist of either wooden sheathing, trapezoidal sheets, or a concrete slab. The membrane is generally fastened through the thermal insulation, which requires special fasteners. Overlapping the membranes prevents the penetration of water into the installation. Due to its great compatibility with various materials such as bitumen, the KÖSTER TPO Membrane is suitable for use in the renovation of roof waterproofing systems as well. For instance, the KÖSTER TPO Membrane can be

directly fastened to the substructure without having to remove the old waterproofing system as long as the substrate is intact and structural aspects do not indicate otherwise. Mechanical fastening allows for a quick installation and provides a high resistance to wind loads without placing an additional load upon the waterproofing system. Thus, the roof structure is comparatively light in weight. Furthermore, mechanical fastening guarantees that the membrane will not slip, even on pitched roofs. Mechanical fastening even makes a green roof on a pitched roof possible.

## Roof waterproofing with bonded membranes



Full surface adhesion to the substrate offers a time-saving installation. The KÖSTER TPO Membrane features a special fleece coating which increases the bonding of the KÖSTER Polyurethane membrane adhesive. This results in a high adhesive strength and creates a perfect bond to the substrate. It is important that the substrate is suitable for a good adhesive bond. If necessary, an adhesive bridge can be applied. In addition, a wind load calculation must be carried out prior to the adhesion of the membrane in order to provide information about the amount

of adhesive required and the alignment of the welding seams. The KÖSTER Polyurethane membrane adhesive is applied in strips to the substrate, the fleec coated KÖSTER TPO Membrane is unrolled, and the membrane is firmly pressed onto the substrate using a rubber hand roller. This enables the adhesive to be spread evenly and help achieve uniformity of the bond. When distributing the adhesive care must be taken to ensure that no material is applied to an area that is to be welded to another sheet.

## Roof waterproofing with loose-laid membranes (e. g. green roofs)



A quick and secure way to install KÖSTER TPO Membranes is through loose laying with ballast. Ballast can consist of either gravel, paving slabs, or even green roofs. Ballast helps protect the roofing membrane against wind loads and can accommodate a wide range of architectural styles.

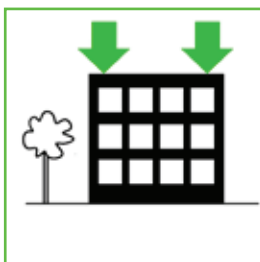
A special advantage of this installation method is that the roofing membrane does not need to be mechanically fastened to the substrate. Due to the weight of the ballast, higher loads must be taken into consideration in the roof load calculation.



## Roof waterproofing

		Article No.	Packaging
<b>KÖSTER</b> <b>21</b> 	<p>A multi purpose waterproofing product, for interior and exterior use with excellent adhesion to dry and moist substrates. KÖSTER 21 is a 2 component, solvent-free, liquid applied, elastic and crack bridging material. The white color reflects sunlight and reduces building surface temperatures. The fast curing coating is highly flexible, resistant to occasional foot traffic, aging, hydrolysis, UV-rays, frost, and salt. CE certification according to DIN EN 1504-2.</p> <p>Consumption: approx. 1.5 - 2.5 kg/sqm</p>	W 210 020	20 kg
<b>KÖSTER</b> <b>Elastic Roof</b> 	<p>Liquid applied, crack bridging and solvent free roof waterproofing material. The application is easy and seamless. It is free of VOCs (Volatile Organic Compounds) and free of Isocyanates. The fast drying foil-like coating is water vapor permeable, resistant against aging, hydrolysis, UV-rays, frost and de-icing salts. The white color reflects heat.</p> <p>Consumption: approx. 2.5 - 3.0 kg / sqm in two layers</p>	R 238 015	15 kg
<b>KÖSTER</b> <b>Dachflex</b> 	<p>Liquid applied, one component synthetic waterproofing for sloped roofs. KÖSTER Dachflex is a foil like coating, waterproof, water vapor permeable and can be colored. The material is highly elastic, quick drying, pasty, solvent-free.</p> <p>Consumption: approx. 0.75-1.0 kg/sqm per coating</p>	R 260 020	20 kg
<b>KÖSTER</b> <b>KSK Alu Strong</b> 	<p>Cold applied self-adhesive synthetic / bitumen membrane for the waterproofing of small, weather exposed roofs, garages and car ports. Applicable between + 12 °C and + 35 °C. Does not require hot air or propane gas welding. It is laminated with a coarse grain embossed, UV resistant aluminum foil which is coated with a grey protective finish on the top side. A highly tear resistant fabric is embedded.</p> <p>Measurements: d: 1.7 mm, b: 1.05 m, l: 10 m.</p>	R 817 105 AS	10.5 m <sup>2</sup>

## Roof waterproofing



Due to their position, roofs are exposed to considerable temperature and weather related stresses. The formation of cracks due to tension in the waterproofing layer can be the consequence. Safe retroactive waterproofing is required. It is vital to apply products which are characterized by great elasticity and high UV-resistance.

## Liquid applied roof waterproofing



Fillet

(W 532) KÖSTER WP Mortar

Waterproofing layer

(R 238) KÖSTER Elastic Roof

(W 210) KÖSTER 21

Reinforcement layer

(W 450) KÖSTER Flex Fabric

Primer

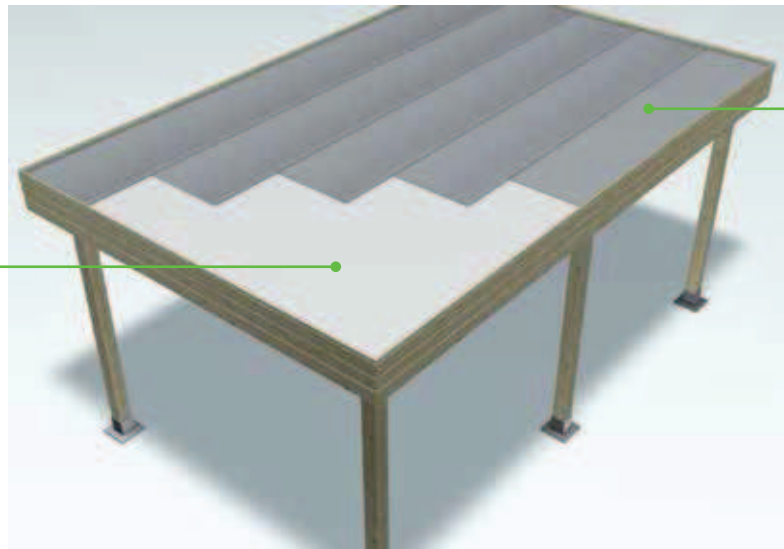
(M 111) KÖSTER Polysil TG 500

Concrete roofs are often difficult to waterproof with membranes due to numerous penetrations and complex geometry. KÖSTER Elastic Roof is a liquid applied elastic waterproofing for roofs. It is UV resistant, white and crack bridging. The product does not contain solvents and allows an easy, seamless application.

KÖSTER Elastic Roof is directly applied onto the prepared concrete substrate by roller or spraying. It has very good adhesion to itself (important for overlapping and easy repair) and even damp substrates. Absorbent substrates are primed with KÖSTER Polysil TG 500.

Always adhere to the specifications in the respective Technical Data Sheets.

### Roof waterproofing with cold self-adhesive sealing membranes



#### Primer

(W 245) KÖSTER KBE Liquid Film

#### Alternatives

(W 100) KÖSTER KSK Primer SP

#### Waterproofing layer

(R 817) KÖSTER KSK Alu Strong

Smaller roofs on non residential buildings can quickly and easily be waterproofed with the cold self-adhesive sealing membrane KÖSTER KSK Alu Strong. The clean and dry substrate is primed with KÖSTER KBE Liquid Film.

KÖSTER KSK Alu is applied onto the dry and primed roof area. Membranes have to overlap a min. of 10 cm on each side. Connections, penetrations and overlaps are sealed with KÖSTER KBE Liquid Film.

Always adhere to the specifications in the respective Technical Data Sheets.



## ***X Accessories***

# X

**KÖSTER**  
Universal Cleaner



Solvent free cleaning agent for bituminous materials and epoxy resins.

Article No.

Packaging

X 910 010

10 l

Consumption: as needed

**KÖSTER**  
Drill Stirrer



Special stirrer for mixing two component polymer modified bitumen thick film sealants (PMBC), e.g. KÖSTER Deuxan 2C and KÖSTER Bikuthan 2C.

X 911 001

Piece

**KÖSTER**  
Tap



Tap for the KÖSTER plastic cannisters with 10 liter or 30 liter capacity and 3 mm or 25 mm diameter.

X 914 001  
(10 / 13)

Piece

X 915 001  
(30 / 13)

Piece

X 917 001  
(10 / 25)

Piece

X 918 001  
(30 / 25)

Piece

**KÖSTER**  
Ring wrench



Tap for the KÖSTER jerry cans with 30 liter capacity and 25 mm diameter.

X 916 001

Piece

**KÖSTER**  
Diagnosis Case



The KÖSTER Diagnosis case allows for the on site testing of common salts (chlorides, nitrates, sulfates) . The case contains all necessary tools for taking samples and sample preparation as well as for the execution of the analysis. Along with the tools come a documentation as well as work instructions, a notepad and a pen.

X 919 001

Piece

**KÖSTER**  
Rubber Gloves



Firm, smooth gloves for the application of e. g. KÖSTER KD System, etc.

Article No. X 920 001  
Packaging Paar

**KÖSTER**  
Cleaning tissue



For the cleaning of tools

X 985 001 10 kg Paket

**KÖSTER**  
Spatula



For the application of e. g. KÖSTER KB-Flex 200, KÖSTER KB-Fix 1, etc.

X 986 001 (20 mm) Piece  
X 987 001 (50 mm) Piece

**KÖSTER**  
Single Paddle Mixer



Electronic universal mixer for materials with low and high viscosity. 1300 watt, 230 V, continuously adjustable. Delivered together with KÖSTER Mortar Stirrer and KÖSTER Disc Stirrer.

X 991 001 Piece

**KÖSTER**  
Double Paddle Mixer



Electronic compulsory mixer, especially designed for pasty and highly viscous mortars, plasters, adhesives, bitumen, etc. 1400 watt, 230 V, delivered with KÖSTER Mortar Stirrers.

X 992 001 Piece

**KÖSTER**  
Disc Stirrer



For the KÖSTER Single Paddle Mixer, with ring, suitable for the mixing of self levelling underlayments, mineral sealing slurries, injection mortars, etc.

X 996 001

Piece

**KÖSTER**  
Mortar Stirrer



For the KÖSTER Single Paddle Mixer, suitable for the mixing of pasty and viscous materials, e. g. restoration plasters, adhesive mortars, tile adhesives, etc.

X 997 001

Piece

**KÖSTER**  
Mortar Stirrer Set



For the KÖSTER Double Paddle Mixer, consists of a mortar stirrer clockwise and a mortar stirrer counter clockwise.

X 998 001

Piece



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# Notes

NOTES

# KÖSTER waterproofing products

## – guaranteed safe

Decades of experience and the high quality of our products has made us a reliable partner on the construction site. Our wide product range includes well-engineered, patented waterproofing products and systems for every possible problem with pressurized or non pressurized water.

Every KÖSTER product meets state of the art research and development and is subject to permanent product and quality control. Test certificates from numerous institutes confirm the high quality of our waterproofing materials.

KÖSTER waterproofing materials – quality you can rely on.



# Terms and conditions of business, supply and payment of KÖSTER BAUCHEMIE AG

## I. General

1. The following terms and conditions of supply and payment apply to the entire business relationship with our customers. The purchaser accepts them as binding on them in respect of the current contract and also for all future transactions. Any alternative agreement requires our written confirmation. The purchaser asserts no purchase terms of their own. They also do not become part of the contractual terms and conditions by consequence of our non-communication or supply.

## II. Quotation and supply

1. Our quotations are non-binding.

2. If we are prevented by a hindrance from fulfilling the contract on time by procurement, manufacturing or supply failures – on our part or on the part of our suppliers – e.g. due to an energy shortage, traffic disruption, strike action or lockout, the supply period is extended accordingly. The purchaser can only withdraw from the contract if, on expiry of the extended term, they set us a final deadline in writing. Withdrawal can only be made if we have not fulfilled within the final deadline and withdrawal is notified in written form.

3. If our fulfillment of the contract is made partially or completely impossible for the reasons stated in paragraph 2, we are released from our supply obligation.

4. We will inform the purchaser immediately of the hindrance under paragraph 2 and the impossibility under paragraph 3.

5. Compensation claims by the purchaser arising from delay or non-fulfillment are excluded, to the extent that malicious intent or gross negligence on our part is not proven.

6. If the purchaser is in default of payment in respect to an earlier supply, we are entitled to withhold supplies without obligation to compensate for any loss caused.

7. We are entitled to make part supply.

## III. Prices

1. Invoices are raised at prices applicable at the date of the supply, if no special agreement has been made in this regard. If, in the case of a forward order or a make-and-hold order, only a part of the agreed quantity is accepted during the agreed period, we are entitled, at our discretion, either to invoice the supplied amount at the price applicable to that lot-size or to supply the quantity not called upon and raise an invoice.

2. If, in exceptional circumstances, we agree to a return of goods, we will invoice 20% of the net goods value to cover our costs. Generally, we do not accept the return of non-standard supplies

## IV. Payment

1. Our invoices fall due for payment immediately after receipt of the invoice. However, we reserve the right, in individual cases, to agree to other payment terms at the time the contract is entered into. Default arises immediately after receipt of the invoice. In this regard, the invoice is deemed to be received three days after the date of the invoice, unless the recipient proves a later date of receipt.

2. In the case of default of payment on the part of the purchaser, we are entitled to charge default interest after the occurrence of default in accordance with generally agreed terms of business. A charge of EUR 15.00 per payment reminder is raised after the occurrence of default.

3. We reserve the right to decide on the acceptance of cheques and bills of exchange on a case-by-case basis. They are only accepted on account of payment. The credit is made under the normal reservations. For bills of exchange, we charge the normal bank discount and collection charges. We do not undertake any guarantee for the correct timing of encashment or remonstrations.

4. In circumstances where a bill of exchange or cheque is not cashed on time or circumstances arise regarding the purchaser, which, in our view, no longer warrant the granting of credit, we can determine the whole amount due to us as falling due immediately – even if bills of exchange or cheques have been provided in respect of it.

5. Only persons with our written power of collection are entitled to receive payments with the issue of one of our receipt forms.

6. The purchaser can only assert a right of retention, if it relates to the same contractual relationship. The purchaser is only entitled to an offset if we have recognized the opposing amount due or it has been legally recognized.

7. If the purchaser gets into default with an invoice, and the value of this invoice reaches a significant amount for the business relationship, all receivables of this business relationship fall due immediately independent of any acceptance of bills of exchange. We are furthermore entitled to demand prepayment before any future delivery.

8. If the default is not dispelled within an acceptable final deadline, we are entitled to withdraw from the contract or to demand compensation due to non-fulfillment. This applies in particular to agreed but not delivered follow-up business. In circumstances where information arises regarding the purchaser, which in our view, no longer warrant the granting of credit, we are entitled, apart from before made agreements, to demand prepayment or payment on delivery of the material. The purchaser is entitled to provide security for bills receivable.

## V. Retention of title

1. The goods remain our property until the payment of all, including future, amounts due to us arising as a result of our business relationship with the purchaser. This also includes conditional amounts receivable.

2. In the case of a processing or a combining of the goods subject to reservation of title with other items not belonging to us, we are entitled to a co-ownership share in the new item in the amount of the sales price invoiced to the purchaser including value added tax or other sales taxes. The purchaser holds the item in custody for us free of charge.

3. The purchaser may sell the goods subject to retention of title as part of orderly business activities, but only under terms of immediate payment or reservation of title; they are not entitled to provide other entitlements, in particular, the granting of security or a pledge.

4. The purchaser assigns to us the amount from his receivable with all ancillary rights from the onward sale of the goods subject to retention of title that corresponds with our invoice price inclusive of value added tax or other sales taxes.

5. Where the receivables of the purchaser from the onward sale are received into a current account, the purchaser also assigns herewith his receivable from their customer from the current account. The assignment is made at the amount that we invoiced to them for the goods resold subject to retention of title inclusive of value added tax or other sales taxes.

6. Subject to revocation, the purchaser is entitled to collect the receivables assigned to us. The assignment or pledging of these receivables is only permitted with our written agreement. Where circumstances arise in relation to the purchaser, which in our view, no longer warrant the granting of credit, at our request, the purchaser is to inform the debtors in writing of the assignment, to provide us with all information and make available and send us documentation. For this purpose, the purchaser is to grant us access, where necessary, to their documents in this respect.

7. In the case of the existence of the circumstances stated in para. 6, sentence 3, the purchaser must grant us access to the goods subject to the reservation of title still in their possession, to send us an accurate list of the goods, to separate the goods and release them to us.

8. If the value of this security exceeds the amount of our receivables by more than 20%, we will release the security to that extent, at the request of the purchaser and our discretion.

9. The purchaser is to inform us immediately in writing of the access of third parties to the goods subject to retention of title or the receivables assigned to us and to support us in intervention in every way.

10. The purchaser bears all of the costs for the fulfillment of the aforementioned cooperation obligations in the pursuit of all rights from the retention of title as well as all costs incurred in the preservation and storage of the goods.

## VI. Packaging and dispatch

1. Packaging follows normal commercial practices relevant to the goods. Special packaging and replacement packaging is charged at cost price. Supply is made by forward freight from the factory.

## VII. Transfer of risk

1. Risk is transferred to the purchaser as soon as the goods leave our factory or warehouse. All supplies, including any returns, travel at the risk of the purchaser.

2. Our supplies are not insured against damage whilst in transport.

## VIII. Responsibility for defects and compensation

1. The goods are supplied in the quality and finish as is normal for us at the time of the supply.

2. Our supplies are to be checked for correctness on receipt. Under or incorrect supplies as well as any defects can only be objected to within 14 days following receipt. Delayed notification of defects does not bring about any entitlement against us. This also applies in respect of non-evident defects, if the purchaser is a merchant.

3. Advice from our employees does not release the purchaser from their own examination of the product with regard to its suitability for its intended purpose and from the observation of the processing requirements of the manufacturer. In addition, technical application advice from our employees, processing instructions, consumption quantities etc., are only general guidelines and do not give rise to a contractual legal relationship or an additional obligation from the purchase contract. No liability arises from such activities. Consumption quantities in our technical leaflets are average values based on experience. Over or under consumption on specific objects do not initiate any rights or claims.

4. The guarantee obligation lapses if changes to the goods supplied have been carried out by the other party or if the purchaser does not immediately comply with our request for the return of the goods subject to complaint. It also lapses if the complete settlement of our invoices does not take place within the contractual or agreed period of credit.

5. If the goods supplied by us are faulty and we are notified within the time limit, we will replace the faulty goods without charge. In the absence of a replacement supply, the purchaser can withdraw from the contract. In the case of a complaint on the grounds of quality, a sample is to be submitted for examination, as appropriate.

6. Our guarantee obligation ends with the term as per law of the country to which the products sold, at maximum five years. Longer guarantee periods are only binding if they have been confirmed by us in writing. In the case of any such extended guarantee, only the entitlement to the replacement of defective materials exists and not the refunding of costs of consequential damage, labor and handling or other compensation claims. To the extent that we grant the recognition of a defect – after the expiry of the guarantee under sentence 1 – we have the discretion of making an additional supply of the same, defect free materials at no cost or refunding the purchase price paid at the time, excluding ancillary costs such as freight.

7. Our liability is unlimited in cases of damages arising from injury to life, body or health and in all cases of damages caused intentionally or by gross negligence. Similarly our liability is unlimited for damages due to fraudulent concealment of a defect, for defects after having been given a guarantee, for damages covered under the German Product Liability Act (Produkthaftungsgesetz) and in all other cases established by law.

8. Claims for defects do not exist upon negligible difference to the agreed condition, upon negligible nuisance of usability, upon natural abrasion or damages which were caused after the transfer of risk due to faulty or negligent handling, inappropriate stocking or transport or which arise from particular outer influences which are not preconditioned by the contract. If the purchaser or a third party carry out any inappropriate modifications no claims arise hence nor for any subsequent consequences.

9. Contribution claims of the purchaser against the supplier do only exist insofar as the purchaser has not made any agreements with their customer that exceed legal defect claims.

10. All other claims, including compensation claims, by the purchaser against us on the grounds of the supply of defective goods are excluded. Nonetheless, should, on any grounds, a recovery of damages come into consideration, the purchase price of the consumed quantity applies as the maximum amount of the claim.

## IX. Other compensation claims

All other claims for compensation by the purchaser against us – irrespective of legal grounds – are excluded, to the extent that malicious intent or gross negligence on our part is not proven.

## X. Validity

Should any of these individual clauses – irrespective of the cause – not be operable, the validity of the remaining clauses is not affected as a result.

## XI. Place of jurisdiction

The place of jurisdiction for all disputes arising in connection with the contractual relationship – including withdrawal – is Aachen, Germany.



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*required waterproofing materials can be delivered promptly and will protect your property efficiently and lastingly.*

*For further information, please contact:*

**KÖSTER**  
*Waterproofing Systems*



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