

CRYSTAL-CRETE

Water ingress through basements, tunnels, pits, floors, ceilings and walls is troublesome and often unsafe. Leakage of vats, tanks and reservoirs is costly and can present health hazards.

DESCRIPTION:

CRYSTAL-CRETE is a permanent water proofer for concrete and cementitious substrates. Non-soluble crystals form in the water bearing capillaries and effectively block them to the passage of water. Provides a fast permanent and economical solution to these problems.

COMPOSITION:

CRYSTAL-CRETE is a cement based waterproofing medium, based on Portland cement and a specific blend of activating chemicals and high grade quartz.

PRIMARY FUNCTIONS:

Waterproofing structures to prevent the penetration of water from any direction by causing a catalytic reaction that produces a non-soluble crystalline formation within the pores and capillary tracts of the concrete and cement-based materials.

TYPICAL APPLICATIONS:

- Sewage and Water Treatments Plants
- Leaking Basements
- Tunnels and Subway Systems
- Lift Wells
- Inspection Pits
- Reservoirs
- Secondary Containment Structures
- Foundations

FEATURES/BENEFITS:

- Resists extreme hydrostatic pressure from either positive or native surface of the concrete slab
- Chloride protection in Marine Environment
- Becomes an integral part of the substrate
- Allows concrete to breathe
- Improves resistance of concrete surfaces to weathering and chemical attack.
- Non-toxic
- Does not require a dry surface
- Cannot puncture, tear or come apart at the seams
- No costly surface priming or levelling prior to application
- Does not require sealing, lapping and finishing of seams at corners, edges or between membranes
- Can be applied to the positive or the negative side of the concrete surface
- Does not require protection during backfilling or during placement of steel, wire mesh or other materials
- Less costly to apply than most other methods

- Permanent

APPLICATION:

1. Clean the concrete:
Dust, oil, laitance or paint must be removed to allow CRYSTAL-CRETE to penetrate the substrate. Make good major cracks, and plug leans and drain-holes.
2. Wet the surface:
A good soaking followed by partial drying will ensure optimum results. New concrete should be at least 3 days old.
3. Make up the mixture:
When using CRYSTAL-CRETE add 1 part clean cold water to 2.5 parts of CRYSTAL-CRETE by volume to obtain a brushable consistency which must then be used within 30 minutes.
4. Apply on Surface:
Just brush on your CRYSTAL-CRETE mixture. A coating of 0.5 to 1.0mm is usually most satisfactory. If two coatings are specified, to withstand high water pressure, apply the second coat before the original has fully dried. A single coat of 100m² requires only 75kg of CRYSTAL-CRETE

PLUGGING:

Leaks and holes drilled to relieve water pressure are easy to seal permanently using ADFLEX Plug. Chase out the area of a leak and insert a length of plastic hose. Direct all water through the hose by plugging the surround. Clean the cavity and apply a coating of CRYSTAL-CRETE. Fill the remainder of the cavity with cement sand and mortar, then recoat with CRYSTAL-CRETE. After the mortar has set withdraw the hose. Push plugging mixture into the hole with a stick and hold it in place for 1 minute. Then fill the hole with sand/cement mortar and recoat with CRYSTAL-CRETE.

HANDLING:

When dry, CRYSTAL-CRETE coatings are harmless and are often used in water tanks and reservoirs. Fresh mixtures are alkaline however, and direct skin contact should be avoided. The use of rubber gloves is strongly recommended.

PROPERTIES:

FORM:	Cementitious Powder
COLOUR:	Cement Grey
BULK DENSITY	1.15 – 1.35kg/l
INITIAL SETTING TIME	40-80 Minutes
FULL CURE TIME AT 20°C	5 Days
50% RH:	
PHYSICAL OR CHEMICAL CHANGE	Chemical Cure
APPLICATION TEMPERATURE	5°C -30°C
SERVICE TEMPERATURE (Continuous ambient)	Minus 40°c - 120°c

PERMANENT PROTECTION AND WATERPROOFING OF CONCRETE AND MASONRY
CEMENT BASED – CRYSTAL CRETE – CAPILLARY SEALING WATERPROOFER FOR
CONCRETE AND MORTAR – POSITIVE AND NEGATIVE APPLICATIONS



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