

# CONSTRUCTION SEALANT – RAPID CURE DURABLE- POLYURETHANE



## RIMSEAL PU40R

### DESCRIPTION:

Rimseal PU40R is a high performance Rapid Curing single component polyurethane sealant. When cured it will form a tough, flexible seal and bond capable of cyclic, expansion and compression movement. Joints or fabrications formed with this sealant can be expected to extend and compress a total of 50% ( $\pm 25\%$ ) of original joint dimensions.

**Rimseal PU40R** is virtually unaffected by normal weathering conditions such as rain, sunlight, snow, sleet, ultra-violet, atmospheric contamination and pollution. Its excellent weather ability enables it to retain its original properties after years of exposure. Its physical properties remain relatively unchanged over a wide temperature range ( $-40^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ )

### RECOMMENDED USES:

- Sealing floor joints
- Granite, Sandstone & Marble pointing
- GRC, Fibreglass and most specialty
- Panel systems
- Trafficable – Plats, Stairs, Roads, Runways,
- Aprons & Pavements
- Vertical-Precast, Block work, Plasterboard & most common building substrates
- Pick resistant – Prisons, Cells, Schools &
- Public Amenities
- Chemical resistant – Service Stations, Hangers,
- Aprons and Bonded Areas
- Sealing gaps & adhering most facade & cladding panels to various building materials
- Sealing construction & expansion joints
- Perimeter sealing of door & window framing
- New construction & remedial applications
- Adhesive for wide range of building & construction applications
- Sealing of concrete joints in airport runways

### FEATURES:

- Fast tack free time & cure rate
- High bond strength
- A medium modulus product, which forms a resilient & permanently elastic seal
- Excellent adhesion to most materials including metals, concrete, brick, wood, plasterboard, GRC & CFC

-Paintable (refer paintability section)

-Non-slumping



### PROPERTIES:

Appearance	Non-sag smooth thixotropic paste
Cure method	Moisture curing
Rate cure in mm/24hr	3.5
Take Free Time (minutes)	45 min
Temp resistance	$-40^{\circ}\text{C}$ to $+70^{\circ}\text{C}$
Colour	Grey
Paintable (Approx)	48 hours
Hardness Shore A	30-35

Flammability	Non flammable
Chemical resistance	Resistant to dilute acids, alkalis & some solvents. Intermittent contact with diesel & petroleum.
Elongation to break	$>400\%$
Full cure	7 days
Application Temperature	$5^{\circ}\text{C}$ to $35^{\circ}\text{C}$
Movement Capabilities	$\pm 25\%$
Tensile Strength	$2.5-3.0 \text{ N/mm}^2$
Acoustic Properties	Excellent

### APPLICATION INSTRUCTIONS:

#### SURFACE PREPARATION

Clean and dry all surfaces by removing foreign matter and contaminants such as oil, dust, grease, frost, water, surface dirt, old sealants and any protective coating. Porous substrates should be cleaned by grinding saw cutting or blast cleaning (sand or water). Dust and loose particles etc should be blown out of joints with oil free compressed air or vacuum cleaned.

Non porous and plastic surfaces should be cleaned by solvent or mechanical means. Cleaning solvents should not be allowed to air dry or evaporate without being wiped with a clean, dry cloth.

#### PRIMING

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For maximum performance on porous surfaces and, in all periodically immersed and submerged applications, use **RIMSEAL POLYBOND Primer**. Porous substrates not subject to immersion or ponded water, eg. vertical expansion joints in concrete or masonry structures, do not require priming if clean, dry and uncontaminated.

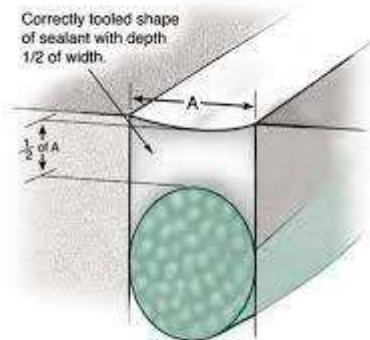
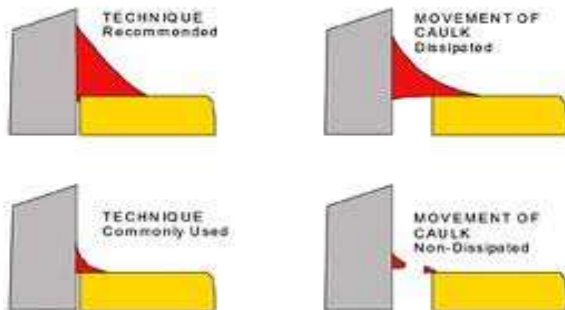
### APPLICATION

Apply **RIMSEAL PU40R** in a continuous bead using enough pressure to properly fill the joint. Tool off surface of sealant with an appropriate sized spatula or trowel. Apply sufficient pressure, ensure maximum contact with the interface of the joint.

### JOINT SEALING HINTS

Always use backing rod for correct sealant geometry & contact with the substrate  
Prime before the installation of the backing rod  
Ensure maximum adhesion to bond face & depth to width ratio of 1:1 up to 12mm  
& 1:2 from 12-50mm  
Tool sealant to achieve concave shape

### Caulk Applications



### COVERAGE:

The coverage table below is approximate only and is dependent on substrate conditions:

PACK SIZE	Linear Metres 5mm x 6mm Joint	Linear Metres 20mm x 10mm Joint
600ml sausage	20	4.4

Calculation formula  $(W \times D \times L) / 1000 = \text{Litres}$

W = Joint Width (mm) D = Joint Depth (mm)

L = Length (metres)

### LIMITATIONS:

#### **RIMSEAL PU40R;**

- Should not be used in highly chlorinated water such as swimming pools, spas etc
- Should not be used in glazing applications subject to UV light radiation or direct sunlight exposure
- Should not be applied onto or near any bitumen products
- Should not be used in interior or exterior structural sealing below the waterline in maritime applications
- Do not apply at temperatures below 5°C or above 35°C
- Do not apply to surfaces with special protective or cosmetic coating such as mirrors, reflective glass or surface coated with Teflon, polyurethane or polypropylene
- Will not adhere to polyethylene, polypropylene or PTFE

### PAINTABILITY:

**RIMSEAL PU40R** can be painted a minimum 48 hours after application using water borne coating and most epoxy flooring systems. Coatings containing high solvent contents such as gloss enamels or high oil based undercoats may cause the surface of the sealant to become tacky. A field test is recommended to ensure compatibility. To obtain best appearance and performance the paint must approximate the elongation capabilities of the sealant. High build coatings with some elastomeric ability such as quality acrylic emulsions have the capability to absorb low movement without significant distortion of the paint film.

### CLEAN – UP:

Clean up uncured material and equipment immediately after use.

Cured material can be removed by mechanical means only.

The use of protective goggles, barrier creams and ointments, gloves and protective clothing is recommended.

**PACKAGING:** 600ml Sausages, 20 per carton

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## RIMSEAL PU 40R

### STORAGE & SHELF LIFE:

Store in a cool dry place, at temperatures between 5°C and 25°C. Opened product should be consumed immediately.

DO NOT stock more than 5 cartons on top of each other.

Shelf life is maximum one (1) year conditional to complying with the above mentioned storage conditions.



The information presented in this data sheet does not imply any warranty. Further, the maker reserves the right to alter the product, the specification and/or the application techniques as described herein without prior notice, in line with his policy of technological advancement and product improvement. Whilst any information and/or specification contained herein is to the best of our knowledge and experience, all of the above information must in every instance be taken as merely indicative and subject to confirmation after long-term practical applications. For this reason, anyone intending to use the product must ensure beforehand its suitability for the envisaged application. In every instance, the user alone is fully responsible for any consequences deriving from the use of the product. Furthermore, no warranty is given or implied in connection with any recommendations or suggestions made by us or our Representatives, Agents or Distributors as conditions of use and any labour involved beyond our control.



**ADCRETE INDUSTRIES PTY LTD**  
43 Grice Street (PO Box 3030) Clontarf, Qld 4019  
Ph: 07) 3883 1888 Fax: 07) 3883 1777  
ABN: 42 010 308 791

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