



R-SEAL PU 1

DESCRIPTION

R-SEAL PU 1 is a single component polyurethane based elastomeric sealant. It cures under the effect of atmospheric humidity to form a flexible and resistant joint with very good adhesion on most materials.

USES

R-SEAL PU 1 can be used for heavy and light precast panel expansion joints, wood, aluminium and PVC joinery seams, and expansion joints in traditional construction.

R-SEAL PU 1 is highly recommended for bonding baked clay and concrete roof tiles.

ADVANTAGES

- One component, no mixing required
- Non staining
- Excellent durability
- Excellent adhesion to most substrates
- Meets ASTM C 920 as Type S, Grade NS, Class 25, SNJF standard (French) (class 25 E), AS 4020:2005 Potable water

METHOD OF USE

Surface Preparation

Clean and dry all surfaces by removing foreign matter and contaminants such as oil dust, grease, water, dirt and any protective coating. Apply a primer if necessary.

Application

R-SEAL PU 1 may be applied by a manual or pneumatic gun. Apply R-SEAL PU 1 in a continuous bead using enough pressure to properly fill the joint.

After application, use a putty knife to smooth the joint with soapy water.

This product should be used within 24 hours of opening the cartridge protection; otherwise, the sealant could harden in the cartridge. Do not apply at a temperature under 5°C.

PRECAUTION

R-SEAL PU 1 should not be:

- In any contact with non-cured MS, hybrid PU or silicone sealant as well as with alcohols or ammonia during curing
- Used in chlorinated water such as swimming pools, etc.
- Used for glazing applications
- Constantly immersed in salt water
- Used in trafficable joints greater than 10mm in width

HANDLING

Avoid contact with skin, eyes and avoid breathing in vapour. In case of contact with skin, wash with plenty of water. If irritation persists, seek immediate medical attention.

SPECIFICATIONS	
Appearance	Pasty
Colour	Various
Density at 20°C	Black : 1.16 ± 0.05; Others : 1.18 ± 0.05
Sagging	None (ISO 7390)
Application Temperature	5°C to 35°C
Skin Formation Time at 23°C and 50%RH	90 to 150 min
Cure Time at 23°C and 50%RH	3mm / 24 hours
Final Shore A Hardness	30 approx.
Modulus at 100%	Approx. 44 psi (0.3 Mpa) (ISO 8339)
Elongation at Break	> 600% (ISO 8339)
Resistance to Dilute Acids and Bases	Average
UV Resistance	Good
Compatibility with Paints	Water-based: Yes Solvent based : carry tests prior to application

CLEAN UP

Clean up uncured material and tools immediately with MEK or acetone. After curing, abrasion is necessary.

PACKING

R-SEAL PU 1 comes in 600ml sausage.

SHELF LIFE

If stored between 5°C to 25°C, the shelf life of R-SEAL PU 1 is approximately 12 months from date of manufacture in unopened sausage.

CONSUMPTION

A 600ml sausage yields approximately:

- 16.7 linear metre for a joint size of 6mm x 6mm
- 3.0 linear metre for a joint size of 10mm x 20mm

$$\text{Calculation formula} = \frac{W \times D \times L}{1000} = \text{Litres}$$

W = width (mm) D=depth (mm) L=length (mm)

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