

SUPERSEAL PU250

Single Component, High Performance Polyurethane Joint Sealant

Description

SUPERSEAL PU250 is a single component, high performance, moisture cure, flexible polyurethane construction sealant. The product has been formulated to offer a non-slump elastomeric, weather and waterproof sealant, which exhibits good skin formation time and fast cure.

SUPERSEAL PU250 is suitable for movement and expansion joints at internal and external areas.

Features & Benefits

- Tough resilient seal
- No primer required
- Non staining
- For movement and expansion joints
- Excellent adhesion to most substrates
- Good resistance to dilute acids and alkalis
- High weather resistance. Durable
- Non-toxic - safe for potable water applications
- Compatible with water-based paints

Uses

SUPERSEAL PU250 may be used for bonding and sealing most common building materials including concrete, wood, lacquered metal, anodised aluminium and glass. It has high elasticity, excellent recovery and tear resistance and good weatherability. It is designed for external and internal joints with movement up to 25%.

SUPERSEAL PU250 can also be used in submerged conditions.

It can be used for all type of joint sealings in car park, precast panels, windows and doors frames, metallic cladding, joints between tiles...etc.

Technical Properties

Appearance	Thixotropic Paste
Color	Grey, Beige, White
Density	1,300 Kg/m ³
Pot Life	60 minutes @ 25 °C
Skinning time	90 minutes

Curing time	2.5 mm/ 24 hours
Shore A hardness	25
Elongation at break	>250%
Movement capability	±25%
Application temperature	+5 to +35 °C
Service Temperature	-5 to +80 °C
Sagging	None
UV Resistance	Excellent
Tensile Strength	>1.0 N/mm ²
Modulus of elasticity at 100%	0.3 N/mm ²
VOC	<50 g/L

All values are subject to 5-10% tolerance

Standards Compliance

- ISO 11600 Class F 25LM
- ISO 8339, 7390, 868
- ASTM C 920 type S, grade NS, class 35
- ASTM C 661
- BS 5212 Pt. 1

Application Procedures

Surface preparation:

Cleaning:

Joints must always be dry before priming and sealing. Allow the Concrete to cure for a minimum of 21 days, at 25 °C. Use a hand-operated grinding disc or similar equipment to remove paint, concrete and foam waterproofing strips from the joints. Clean joints down to bare concrete on the sides to ensure good bonding. Take care when grinding that joints do not become "V" shaped but rather maintain a uniform width.

Cut joints so that their depth is twice their width to allow enough space for the backing foam.

All loose dirt and concrete must be cleaned out of the joints with a soft brush.

For neat and clean job, use masking tape around the joint edges before applying the sealant. Remove the tape immediately after the sealant is applied.

Priming:

Porous substrates should be primed with TOPSEAL EP or TOPSEAL S30. Primer should be applied to clean, dry surface prior to the installation of backer rod or bond breaking tape

Inserting the backing-strip:

A closed cell polyethylene foam-backing strip is to be used in all joints. The width of the backing strip should be equal to the width of the joints, and the thickness of the strip should approximately equal the width. Insert the backing strip into the joints to a uniform depth.

Mixing Instructions:

SUPERSEAL PU250 is supplied in a ready to use sausage which can be loaded into barrel gun.

Application Instructions:

SUPERSEAL PU250 shall be applied with a manual or pneumatic caulking gun. The product should be gunned into the prepared joint. Do not apply the sealant at temperatures <5°C. Do not apply on wet substrates. After application the sealant can be smoothed with a gloved finger using soap and water as lubricant.

Cleaning

Tools and equipment should be cleaned immediately after use with water.

Coverage

$$\text{Qty in Liter per linear meter} = \frac{W \times D}{1000}$$

W = Joint width (mm)

D = Joint Depth (mm)

Packaging

SUPERSEAL PU250 is available in 600 ml sealed sausages.

Storage

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

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