

SUPERSEAL PS

Two-Component Polysulfide Joint Sealant

Description

SUPERSEAL PS is a high-performance elastomeric polysulfide sealant for use in joints where a permanent seal against movement, dust, dirt and water is required. It may be used in expansion joints and well as normal joints up to 75mm width.

SUPERSEAL PS is ideally suited for movement joints in building and civil engineering structures such as reservoirs, taxiways, concrete floors, pipelines, canals, swimming pools and other water retaining structures, basements and high-rise buildings.

The product is designed and produced in two grades, **SUPERSEAL PS -PG** self-levelling pouring grade for horizontal joints and **SUPERSEAL PS -GG** thixotropic gun grade for vertical joint application

Density	1,300 – 1,500 Kg/m ³
Pot Life	2 hours @ 25 °C
Tack free time	5-7 hours
Full curing	7 days
Shore A hardness	25-30 (Gun Grade) 15-20 (Pouring Grade)
Elongation at break	>300% (Gun Grade) >500% (Pouring Grade)
Movement capability	±25%
Application temperature	+5 to +35 °C
Service Temperature	-5 to +80 °C
Chemical resistance	Mild acids, Alkalis, Sea water, Oil, Hydrocarbons, Fuel
UV Resistance	Excellent

All values are subject to 5-10% tolerance

Features & Benefits

- Easy to mix and apply
- Non staining
- Provides permanent and uniform watertight seal
- Not sensitive to moisture during cure
- Excellent oil, fuel, ozone and chemical resistance
- Can be used on trafficable surfaces
- Excellent resistance to ageing
- Accommodates continuous and cyclic movement
- Non-toxic once cured. Can be used in potable water reservoirs and swimming pools

Uses

SUPERSEAL PS is ideally suited for movement joints in building and civil engineering structures such as reservoirs, taxiways, concrete floors, airport run ways, bridge decks and highway pavements, pipelines, canals, swimming pools and other water retaining structures, basements and high rise buildings.

Technical Properties

Appearance	Paste
Color	Grey, Off White

Standards Compliance

- BS 4254
- BS 5212: Part 1,
- WRAS- BS 6920 Test on effect of water quality
- ASTM C 920, Type M, Class 25, USE T

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 PS is supplied is in pre-weighed two parts pack which requires on site mixing. Pour the hardener (Part B) into the base (Part A) pail and Mix together, using a slow speed drill of sufficient power and a suitable mixing paddle. Mix till a uniform colour and consistency is achieved.

Application Instructions:

Pouring grade:

Use a suitable vessel with a convenient spout, such as a can or old teapot. Pour the sealant evenly into the joint, taking great care not to waste the product around the joint edges. Allow the sealant to fill the joint to within 1mm of the top.

Gun grade:

Apply sealant by hand or pressure operated closed barrel guns. For maximum economy of operation, the barrel should be approximately 320mm long. The outlet nozzle should be 2 - 3mm smaller than the width of the joint.

Fill the gun by pressing the base down on the opening of a plunger plate, in the way a standard grease gun is filled, or by simply using a spatula.

The sealant is gunned into the centre of the joints, ensuring always complete contact between the sealant and the joint surfaces.

To further force the sealant into the joint and complete the finish, run a spatula, of approximately the same width as the joint, wetted with soapy water, along the

joint, depressing the sealant slightly and giving it a smooth, even finish.

Cleaning

Tools and equipment should be cleaned immediately after use with a cleaning solvent.

Coverage

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

W = Joint width (mm)

D = Joint Depth (mm)

Packaging

SUPERSEAL PS - PG is available in 4 Liter Kits.

SUPERSEAL PS – GG is available in 2.5 Liter Kits

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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