

TECHSEAL SOLO 900-901

MOISTURE CURED POLYSULPHIDE JOINT SEALANT

DESCRIPTION

TECHSEAL SOLO is single component moisture cure Polysulphide 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 to ASTM C719.

Techseal solo is virtually unaffected by normal weathering conditions such as rain, sunlight, snow, sleet, ultra-violet radiation, ozone, atmospheric contamination and pollution. Its excellent weatherability enables it to retain its original properties after years of exposure. Its physical properties remain relatively unchanged over a wide temperature range (-40°C to 70°C).

RECOMMENDED USES

- For sealing concrete floor joints.
- Granite, sandstone and marble pointing GRC, Fiberglass & Specialty panel systems.
- Metal curtain wall facades.
- Potable water tanks.
- Sealing gaps and adhering facade and cladding panels to various building materials.
- Sealing construction and expansion joints.
- For sealing of pqc joints.

FEATURES & BENEFITS

- Fast curing & setting.
- Excellent adhesion & bonding strength.
- Excellent adhesion to most materials including metals, concrete, brick, wood.
- Paintable.
- Resistant to fungal attack. Excellent water and chemical resistance.
- Also suitable for potable water.
- High movement accommodation ($\pm 25\%$) ASTM C719
- One component so no mixing is required.

TECHNICAL DATA

Typical properties after seven days cure at 25°C and 50% RH.

Appearance	Flowable viscous paste.
Type of cure	Moisture cure
Initial surface dry time in min.	7 days
Tack free time	25 days
Shore A hardness	25 – 30 approx.
Tensile strength	6-10 kg/cm ²
Complete Cure	7 days
Elongation at break	600%
Chemical resistance	Resistance to dil. acids ,alkalis ,oils, fuels etc.
Application Temperature	5°C to 55°C
Service Temperature	-20°C to +70°C

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DIRECTION FOR USE

SURFACE PREPARATION

1. Surface preparation is the most important step before application of the sealant to get best results and to avoid failure.
2. The joint surface must be dry, free from dust, coating, bituminous mastics, concrete curing agents, mould release agents, oils, greases and loose particles.
3. Clean the joint surface by wire brush and sanding with emery paper.
4. Remove dust by compressed air or paint brush.
5. Wipe out oil and grease by solvent soaked cloth (such as xylene, toluene or acetone.)

TOOLING & FURNISHING

It is desirable that a smooth surface is obtained. Tool the sealant by pressing the puffy knife or flat tool against the sealant surface, moving along the length of the joint. Tooling breaks air bubbles and exposes any air pockets present. Tooling compresses the sealant, thus promoting adhesion to the joint sides. After tooling the masking tape should be removed immediately. Soap solution can be used to smoothen the sealant surface.

COVERAGE

Sealant: To estimate the quantity of TECHSEAL SOLO required to seal the joint can be very easily estimated by using the following formula:-

$$L = 675 / (W \times D)$$

Where, L = Length of the joint in linear running meter
W = Width of the joint
in mm. D = Depth of the
joint in mm.

Primer: 1 lit. Of primer is required per 15kgs of sealant

CLEANING OF TOOLS & EQUIPMENTS

Tools and equipment can be easily cleaned with solvent such as xylene, toluene, methyl, ethyl, ketone and acetone.

STORAGE & SHELF LIFE

Store the material at cool and dry place (at 25°C temp. & 50% RH)
Shelf life is 9 months in unopened packs.

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PACKING

Techseal solo : 1kg & 4kg.

Primer: 100 ml, 500 ml, 1 ltr.

SPECIFICATION COMPLIES

- BS 5212 & BS 4254
- ASTM C 920

PRECAUTIONS

- Some people are sensitive to resins, hardeners, solvent and its vapors so it is advisable to use hand gloves and goggles
- Avoid application below 5°C temperatures.
- Avoid application and damp or moist substrate.
- Storage store at cool & dry place.
- Ensure that two coats of primer are applied on the jointing surfaces V.

BACK UP MATERIAL

Insert compressible polyethylene, polyurethane, neoprene, polyethylene butyl rod as back-up material to control Depth of sealant in the joint and to provide support for tooling of the sealant.

PRIMING

Select a primer suitable to the substrate and apply two coats by brush on the sides of the joints surface at an interval of 30 minutes.

- Primer RDL 942: For porous substrate such as concrete, wood etc.
- Primer RDL 947: For non-porous substrate such as metals, glass etc.

BOND BREAKER

Fix bond breaker tape such as self adhesive polyethylene tape on back-up material to avoid adhesion of sealant to the third surface.

MASKING TAPE

Apply masking tape such as self adhesive polyethylene, cellophane or cloth tape on both edges of the joint. It is used to improve the neatness of the finished seal by protecting the face edges of the joint. It may be removed immediately after tooling of the sealant

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APPLICATION

Can be applied manually or directly with a knife or spatula. Apply primer on the edges by brush and allow it to dry for 20 min. Then apply Techseal solo manually.

Note: Moisture cure Polysulphide sealant requires min 21 days for complete curing. Curing may vary as per temperature humidity variation