

SOPRA Joint 300

Two Part Polysulfide Construction Joint Sealant

Description

SOPRA Joint 300 is a two part high performance, elastomeric joint sealant. It is based on a polysulfide polymer. When mixed, it cures through a chemical reaction to form a tough rubber-like seal with excellent adhesion to most building surfaces. The product exhibits excellent weathering resistance in Middle Eastern conditions and conforms with key international standards. **SOPRA Joint 300** is available in both gun and pouring grades for ease of application.

Uses

For sealing movement joints in building and civil engineering structures including reservoirs, sewage plants, floors, basements, subways, bridge decks and associated abutments.

Advantages

- * Excellent application characteristics.
- * Low modulus, reduced stress on the bond line.
- * High early movement accommodation.
- * Excellent chemical and weathering resistance.
- * Conforms with major international standards.

Standards Compliance

ISO 11600, 25LM
BS 4254
BS 6920 (gun grade)
US Fed. Spec. TT-S-00227 E, Class A
ASTM C 920, Type M, Class 25

Packaging

- 4 litre steel cans.
- 2 litre steel cans.

Properties

Form	Viscous Paste
Colour	Grey
Solids Content, %	100
Specific gravity @ 20°C	1.6
Cure	Chemical
Application temp; °C	5-50
Application life @ 35 °C, min.	60
Initial setting time @ 35°C, hrs.	12
Full cure time @ 35 °C, days	7
Hardness, Shore 'A', ASTM C 661	20 +/- 5
Movement accommodation factor, %	25
Water immersion	Must be fully cured before permanent water immersion.
Chemical Resistance	
SOPRA Joint 300 is resistant to occasional spillage of	
	Dilute acids
	Dilute alkalis
	Petrol
	Aviation fuels
	Diesel fuel
	Kerosene
	Lubricating oils
	Hydraulic fluids
	Skydrol
	White spirit

Storage

12 months minimum storage life when stored in original containers kept in cool and dry conditions.

Application Instructions

Joint Preparation

Joint surfaces must be clean, dry and dust free. Mechanical preparation of surfaces with grinding, sandpaper or emery paper is recommended. Contamination can be removed by wiping with a degreasing solvent such as acetone. Edges of joints can be covered with masking tape for a neat finish which should be removed immediately after sealing work is complete. Place debonding tape at the bottom of the joint to allow free movement of sealant. A suitable backing rod, where necessary, can be used to regulate correct joint dimension.

Joint Design Criteria

SOPRA Joint 300 may be applied to joints between 5 and 50 mm wide. Cyclic movement joints should be designed to an optimum width:depth ratio of 2:1 based on the following minimum sealant depth:

5 mm for non-porous surfaces.
10 mm for porous surfaces.

To ensure that the sealant remains within its stated movement capability, the joint width should be at least four times the anticipated movement.

Priming

Use SOPRA Prime N for non - porous surfaces and SOPRA Prime P for porous surfaces.

Mixing and Gun Loading

The entire curing agent pack should be added to the base container. The two components should be mixed thoroughly for at least five minutes using the recommended mixing paddle and a slow speed electric drill of (300 -500 rpm) making sure that unmixed components do not remain at the bottom or

at the sides of the container. The mixed sealant should be of a uniform colour, free from streaks.

After mixing, fill up the sealant gun with SOPRA Joint 300 and fix the cap with required nozzle to the gun.

Application

Extrude the sealant into the joint ensuring contact with joint faces and avoiding any air voids. SOPRA Joint 300 should be smoothed using appropriate tools.

Cleaning

Uncured SOPRA Joint 300 can be cleaned with SOPRA Solvent III.

Precautions

Health and Safety

SOPRA Joint 300 is harmful if swallowed. The curing agent consists of a heavy metal oxide. Skin contact should be avoided. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. When contact with the skin is made, wash off immediately with soap and water. Gloves should be used during application. Empty containers should be disposed of in accordance with local disposal regulation, and not left lying about.

Technical Support

SOPRA provides on-site assistance and consulting services on projects when requested. Technical data sheets on other SOPRA products and guidance on their use are available on request.

Warranty

SOPRA products are guaranteed against defective materials and manufacture and sold subject to SOPRA standard terms and conditions of sale. Whilst SOPRA endeavours to ensure that any advice, information or recommendation given is correct, the company can not accept any liability either directly or indirectly arising from the use of its products, since the company has no control