

Sopra Joint 400

Cold Applied High Performance Pavement Joint Sealant

Description

Sopra Joint 400 is a two part cold applied tar modified low modulus elastomeric pavement sealant formulated to accommodate continual cyclic thermal movement. It is resistant to fuel, oil, hydraulic fluid and skydrol and remains stable at constant exposure to high temperature and high humidity climates.

Uses

For sealing and resealing movement joints in concrete pavements including airport runways, highways and hard standings.

It is suitable for sealing joints where fuel, oil, hydraulic fluid and skydrol spillage may occur such as airport fueling locations, highway fueling stations, ports and wharfage.

Advantages

- * Excellent application and self levelling characteristics.
- * Low modulus with high movement accommodation.
- * Fuel, oil, hydraulic fluid and skydrol resistant.
- * Stable in high temperature and high humidity conditions.

Standards Compliance

BS 5212, Type F & B
US Fed. Spec. TT-S-00200E

Packaging

4.5 litre pack

Storage

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

Properties

Form	Viscous liquid
Colour	Black
Solids Content, %	100
Specific gravity @ 20°C	1.37
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	5-7
Hardness, Shore 'A', ASTM C 661	15 +/- 5
Movement accommodation factor, %	25
Flash point, °C	>65

Chemical Resistance

Sopra Joint 400 is resistant to occasional spillage of

Aviation fuel
Petrol
Diesel fuel
Kerosene
Hydraulic fluids
Skydrol
White spirit

Application Instructions

Joint Preparation

Joint surfaces must be clean, dry and dust free. Mechanical preparation of surfaces with grinding, grit blasting, sandpaper or emery paper is recommended. Contamination can be removed by wiping with a degreasing solvent such as acetone. 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

Joints should be accurately formed and prepared to provide the correct sealing slot dimensions. The width / depth ratio of Sopra Joint 400 seal should be 1:1 to 2:1 subject to a minimum 10 mm depth of sealant. In trafficked areas the maximum expansion joint width should be limited to 30 mm.

Priming

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

Mixing

Drain the total content of the curing agent into the base tin. Mix thoroughly for four minutes using a slow speed drill (300-500 rpm) fitted with a suitable paddle.

Application

Sopra Joint 400 should be applied into the joint using a suitable solid barrel gun. In the case of wide joints the sealant may be poured directly from the tin.

Care should be taken to ensure that the sealant is recessed in the joint such that at no time during the movement cycle will the sealant extrude above the level of the concrete pavement.

Cleaning

Uncured Sopra Joint 400 can be cleaned with SopraSolvent III.

Precautions

Health and Safety

Sopra Joint 400 is harmful if swallowed. The base material contains tar and the curing agent contains diisocyanate. 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 over the application of its products. Information contained in this document is given on the best current knowledge. Sopra policy is one of continuous improvement and the company reserves the right to change its products without prior notice.