Construction

Sika® Polysulphide

Two component polysulphide sealant

Product Description	Sika® Polysulphide is a cross linking polysulphide based elastic sealant for vertical and horizontal expansion joints.
Uses	It is used in both vertical and horizontal expansion joints in many types of buildings and civil engineering constructions such as : ■ Retaining walls ■ Underpasses and tunnels ■ Precast concrete elements ■ Bridges ■ High and low rise buildings and ■ Wherever a permanently flexible seal is required
Characteristics / Advantages	■ Easy to use ■ Economical ■ Excellent adhesion with many materials ■ Non- sag in vertical and overhead joints ■ Good chemical resistance ■ Permanently elastic

Tests

Approval / Standards	Confirms to : BS 4254 – 1983 Confirms to : BS 5212 - 1990 Confirms to : IS 12118 (part 1 & 2) – 1987 Confirms to : ASTM C – 920 – 1987 Type M Grade NS Class 25

Product Data

Form

Appearance/Colour	grey ,paste
Packaging	6 kg (Component A = 4 Kg, Component B = 2 kg)
Pot Life	2 hours at 27°C

Storage

Storage Conditions / Shelf-Life	6 months from the date of production when stored properly in unopened undamaged and sealed original packaging in cool and dry condition at temperature +5°C to +30°C.

Technical Data

Chemical Base	Cross linking polysulphide
Density	~1.62 kg/l

Mechanical / Physical Properties

Joint Configuration	Minimum Joint Depth - 8 mm Maximum Joint Depth - 40 mm* *(Under special conditions, up to 50mm. Please consult Sika® technical services)
Width: Depth ratio	For joints from 10 mm to 40 mm, width : Depth = 2 : 1
Curing Time	24 hours
Shore-A hardness	> 20 (7 days)
Movement capacity	25% of average joint width
Plastic Flow (not more than 2 mm)	Nil
Resistance to Fuel Immersion (change in mass in % after fuel immersion)	0.8% decrease
Tack Free Time	No adherence after a period of 16 $\pm$ 0.1 hrs
Resistance to flow (using a mould inclined at 2.5% slope at 23$\pm$2°C, should not be greater than 4mm)	0.1
Service temperature	0^0C to + 90^0C

Application Details

Substrate Quality	All surfaces must be clean, dry and free from any loosely adhering particles
Substrate Preparation	Check the joints edges for soundness and if found weak cut recess and fill up with suitable repair mortar (Consult Sika Technical services). Correct joint depth can be established by inserting polyethylene based Sika® Backer Material tightly into the joint. When the joints have been filled with fibre filled board, this must be raked back to the required depth.Use bond breaker tape over the backer material. Protect surfaces with masking tape.
Priming	Sika®-80 Primer should be used as a primer only on the two sides. wait for 30 mins.

Application Conditions / Limitations

Substrate Temperature	+10°C min. / +40°C max.
Ambient Temperature	+10°C min. / +40°C max.
Material Temperature	+10°C min. / +40°C max.
Substrate Moisture Content	Dry joint with sound concrete edges. For joints under wet conditions, use Sika®-80 Primer

Application Instructions

Mixing	Part A : Part B = 92 : 8 (by weight)
Mixing Time	 The two components are mixed in the ratio Comp. A : Comp B = 92 : 8 by weight with a low speed mixer (400 - 600 rpm). Mix for approximately 8 - 10 minutes until a smooth, even consistency is achieved.

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Application Method / Tools	Where required, protect the surface with masking tape. Install the sealant into the joint without trapping air. Tool-off with a spatula to lightly concave profile. Remove masking tape.
Cleaning of Tools	Clean all tools and application equipment with Sika® Colma Cleaner immediately after use. Hardened / cured material can only be mechanically removed.
Notes on Application / Limitations	Do not use in contact with drinking water or food. Gun grade Sika® Polysulphide is gun-applied - 2 part polysulphide sealant which is used both for horizontal and vertical joints. Pourable grade Sika® Polysulphide is used only in case of horizontal joints.

Value Base

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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