

**Product Data Sheet**  
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 Sika® Polysulphide

# Sika® Polysulphide

## Two component polysulphide sealant

<b>Product Description</b>	Sika® Polysulphide is a cross linking polysulphide based elastic sealant for vertical and horizontal expansion joints.
<b>Uses</b>	It is used in both vertical and horizontal expansion joints in many types of buildings and civil engineering constructions such as : <ul style="list-style-type: none"> <li>■ Retaining walls</li> <li>■ Underpasses and tunnels</li> <li>■ Precast concrete elements</li> <li>■ Bridges</li> <li>■ High and low rise buildings and</li> <li>■ Wherever a permanently flexible seal is required</li> </ul>
<b>Characteristics / Advantages</b>	<ul style="list-style-type: none"> <li>■ Easy to use</li> <li>■ Economical</li> <li>■ Excellent adhesion with many materials</li> <li>■ Non- sag in vertical and overhead joints</li> <li>■ Good chemical resistance</li> <li>■ Permanently elastic</li> </ul>
<b>Tests</b>	
<b>Approval / Standards</b>	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
<b>Product Data</b>	
<b>Form</b>	
<b>Appearance/Colour</b>	grey ,paste
<b>Packaging</b>	4 kg (Component A = 3.68 Kg, Component B = 0.32 kg )
<b>Pot Life</b>	2 hours at 27°C
<b>Storage</b>	
<b>Storage Conditions / Shelf-Life</b>	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

<b>Chemical Base</b>	Cross linking polysulphide
<b>Density</b>	~1.62 kg/l

## Mechanical / Physical Properties

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

## Application Details

<b>Substrate Quality</b>	All surfaces must be clean, dry and free from any loosely adhering particles
<b>Substrate Preparation</b>	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.
<b>Priming</b>	Sika®-80 Primer should be used as a primer only on the two sides. wait for 30 mins.

## Application Conditions / Limitations

<b>Substrate Temperature</b>	$+10^\circ\text{C}$ min. / $+40^\circ\text{C}$ max.
<b>Ambient Temperature</b>	$+10^\circ\text{C}$ min. / $+40^\circ\text{C}$ max.
<b>Material Temperature</b>	$+10^\circ\text{C}$ min. / $+40^\circ\text{C}$ max.
<b>Substrate Moisture Content</b>	Dry joint with sound concrete edges. For joints under wet conditions, use Sika®-80 Primer

## Application Instructions

<b>Mixing</b>	Part A : Part B = 92 : 8 (by weight)
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### 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.

<b>Application Method / Tools</b>	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.
<b>Cleaning of Tools</b>	Clean all tools and application equipment with Sika® Colma Cleaner immediately after use. Hardened / cured material can only be mechanically removed.
<b>Notes on Application / Limitations</b>	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.
<b>Value Base</b>	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.
<b>Health and Safety Information</b>	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.
<b>Legal Notes</b>	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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