

## PRODUCT DATA SHEET

# Sika® Polysulphide GG

Two component gun grade polysulphide sealant

### DESCRIPTION

Sika® Polysulphide GG is a cross linking polysulphide based elastic sealant for vertical and horizontal expansion joints.

Suitable for use in hot and tropical climatic conditions.

### 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
- Reservoirs
- 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
- Good weather resistance

### ENVIRONMENTAL INFORMATION

- VOC content <35 g/L (less water) US EPA 24

### APPROVALS / STANDARDS

- Conforms to: BS 4254 - 1983
- Conforms to BS/EN ISO 11600 : 2003
- Complies with ASTM C920, Type M, Grade NS, Class 25
- Conforms to: TT-S00227 E (COM-NBS) - 3 Type II

### PRODUCT INFORMATION

|                           |   |
|---------------------------|---|
| <b>Chemical Base</b>      | Cross linking polysulphide  |
| <b>Packaging</b>          | Comp. A: ~ 2.37 L + Comp. B: ~ 0.13 L   |
| <b>Colour</b>             | Paste, grey   |
| <b>Shelf Life</b>         | Sika® Polysulphide GG has a shelf life of 12 months from the date of production, if it is stored in undamaged, original, sealed packaging, and if the storage conditions are met. |
| <b>Storage Conditions</b> | Sika® Polysulphide GG shall be stored in dry conditions, where it is protected from direct sunlight and at temperatures between 5 °C and 30 °C.                                   |
| <b>Density</b>            | ~1.58 kg/l  |
| <b>Solid Content</b>      | 100 %   |

## TECHNICAL INFORMATION

|                            |   |              |
|----------------------------|---|--------------|
| Shore A Hardness           | ~25   | (ASTM C 661) |
| Movement Capability        | +/-25 %   | (ASTM C 719) |
| Service Temperature        | -20 °C min. / +80 °C max.   |              |
| Joint Design               | <b>Joint Configuration</b><br>Minimum joint width: 6 mm<br>Maximum Joint width: 50 mm<br><br><b>Width: Depth ratio</b><br>The joint width must be designed to suit the movement capability of the sealant. Joints expected to movement a width to depth ratio of approximately 2 : 1 must be maintained. For butt joint the width to depth ratio should be 1 : 1.<br><br>Minimum joint depth is recommended: <ul style="list-style-type: none"><li>▪ 6 mm for non-porous surfaces</li><li>▪ 8 mm for porous surfaces</li><li>▪ 20 mm for trafficked joints and joints that are exposed to hydrostatic pressure</li></ul><br>At chamfered elements it shall not fill the chamfer with sealant. |              |
| Mixing Ratio               | Part A : Part B = 96 : 4 (by weight)  |              |
| Ambient Air Temperature    | +5 °C min. / +50 °C max.  |              |
| Substrate Temperature      | +5 °C min. / +50 °C max.  |              |
| Substrate Moisture Content | Dry joint with sound concrete edges. For joints under wet conditions, use Sika®-Primer-PS or alternatively Sika® Primer 3N  |              |
| Pot Life                   | 2 h at 25 °C  |              |
| Curing Time                | 1 week  |              |

## BASIS OF PRODUCT DATA

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.

## LIMITATIONS

**Do not use in contact with drinking water or food.**

- Gun grade Sika® Polysulphide GG is gun-applied 2 part polysulphide sealant which is used both for horizontal and vertical joints. Sealant joint movement should not exceed +/-25 % of the joint width when installed in a width to depth ratio of 2 : 1.
- Sika® Polysulphide GG is chemical resistant (occasional spillages) to diluted acids, diluted alkalis, aviation fuel, kerosene, lubrication oils, skydrol and white spirit.
- Sika® Polysulphide GG is not chemical resistant to chlorinated solvents, aromatic solvent and diluted oxidizing acids.
- Sika® Polysulphide GG must be fully cured before permanent immersion in water.
- Paint compatibility with sealant should be checked

prior to painting.

## ECOLOGY HEALTH AND SAFETY

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

# APPLICATION INSTRUCTIONS

## SUBSTRATE PREPARATION

All surfaces must be clean, dry and free from any loosely adhering particles. Check the joints edges for soundness and if found weak cut recess and fill up with suitable repair mortar (Consult Sika Technical Department). Correct joint depth can be established by inserting closed cell polyethylene backing rod tightly into the joint. When the joints have been filled with fiber 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® Primer PS or alternatively Sika® Primer-3N should be used as a primer only on two sides of the joint. The flash off time is minimum 30 minutes and maximum 3 hours.

## MIXING

The product is packed in a 2.5 litre tin, containing the base and curing agent, ready to mix in the appropriate ratios. Mix the product thoroughly with a mixing paddle fitted to an electric hand drill not exceeding 500 rpm to avoid entrapping air. Mix for approximately 5 minutes until a smooth, even consistency is achieved.

## APPLICATION METHOD / TOOLS

Where required, protect the surface with masking tape. To place, load the mixed sealant directly into bulk or caulking gun or using a follower plate loading system. Install the sealant into the joint without trapping air with consistent pressure to force the sealant into the joint. Tool-off with a spatula to form slightly 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.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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### **PRODUCT DATA SHEET**

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