

PRODUCT DATA SHEET

SikaSeal®-410 PG

Two component self-leveling polysulphide sealant

DESCRIPTION

SikaSeal®-410 PG (substitute for Sika® Polysulphide PG) is a cross linked polysulphide based elastic sealant for horizontal expansion joints. Suitable for use in hot and tropical climatic conditions.

USES

It is used in horizontal joints in many types of buildings and civil engineering constructions such as:

- Expansion joints in floors
- PQC joints, Precast concrete elements
- Bridge deck joints
- Reservoirs
- Vacuum dewatered floor joints/groove sealing, crack repairing
- Horizontal trafficable joints, airport runways, car park, roads and culverts
- Wherever a permanently flexible horizontal seal is required

PRODUCT INFORMATION

Composition	Cross linking polysulphide	
Packaging	5 L pack (Comp. A + Comp. B)	
Colour	Paste, grey	
Shelf life	SikaSeal®-410 PG 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.	
Storage conditions	SikaSeal®-410 PG shall be stored in dry conditions, where it is protected from direct sunlight and at temperatures between +5 °C and +30 °C	
Density	~1.60 kg/l	
Volatile organic compound (VOC) content	<60 g/l	(US EPA 24)
Solid content	~98 %	

CHARACTERISTICS / ADVANTAGES

- Easy to use
- Economical
- Excellent adhesion with many materials
- Good chemical resistance
- Permanently elastic
- Good weather resistance

SUSTAINABILITY

VOC content <60 g/l (US EPA 24)

APPROVALS / CERTIFICATES

SikaSeal®-410 PG complies with ASTM C920, Type M, Grade P, Class 25

SikaSeal®-410 PG complies with BS EN ISO 11600:2002

TECHNICAL INFORMATION

Shore A hardness	~20 (14 d)	(ASTM C 661)
Movement capability	+/-25 %	(ASTM C 719)
Service temperature	-20 °C min. / +80 °C max.	

Joint design

Joint configuration

Minimum Joint width: 6 mm
Maximum Joint width: 50 mm

Width: Depth Ratio

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.

Minimum joint depth is recommended:

- 6 mm for non-porous surfaces
- 8 mm for porous surfaces
- 20 mm for trafficked joints and joints that are exposed to hydrostatic pressure

At chamfered elements, don't fill the chamfer with sealant.

APPLICATION INFORMATION

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.	
Pot Life	~2 h (23 °C / 50 % r.h.)	
Curing time	~1 week (23 °C / 50 % r.h.)	
Tack free time	<72 h	(ASTM C679)

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

- **Do not use in contact with drinking water or food.**
- Pourable grade SikaSeal®-410 PG is used only in case of horizontal joints. Sealant joint movement should not exceed +/-25 % of the joint width when installed in a width to depth ratio of 2 : 1.
- SikaSeal®-410 PG is chemical resistant (occasional spillages) to diluted acids, diluted alkalis, aviation fuel, kerosene, lubrication oils, skydrol and white spirit.
- SikaSeal®-410 PG is not chemical resistance to chlorinated solvents, aromatic solvent and diluted oxidizing acids.
- SikaSeal®-410 PG must be fully cured before permanent immersion in water.
- Paint compatibility with sealant should be checked prior to painting.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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 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

Add Component B into the bigger Component A pail. Mix the product thoroughly with a mixing paddle fitted to an electric hand drill (5 L packing) 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. The properly mixed material can be poured directly into joint. Remove masking tape.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika® Colma Cleaner immediately after use. Hardened / cured material can only be mechanically removed.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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All products are supplied
under a management
system certified to conform
to the requirements of the
quality, environmental and
occupational health &
safety standards ISO 9001,
ISO 14001 and OHSAS
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