

PRODUCT DATA SHEET

SikaSeal[®]-470 PG

(formerly MSeal PG 470)

High performance, elastomeric, pourable grade joint sealant

DESCRIPTION

SikaSeal[®]-470 PG is a high grade, polysulphide based sealant possessing outstanding resistance to deterioration due to weathering, ozone, ultra- violet light and attack by chemicals present in industrial atmospheres. It has the ability to withstand repeated cycles of compression and extension over a wide temperature range, and has excellent adhesion properties to all materials commonly employed in building and construction work.

USES

- SikaSeal[®]-470 PG is developed for sealing horizontal joints where pronounced cyclical movement is expected and where the service conditions would be harsh for most common sealants.
- It is ideal for use in expansion joints in reinforced concrete structures such as bridges, reservoirs, water treatment works, sea walls and roads, etc. It can, also, be used in floor joints subject to heavy usage where a high resistance to damage is required.
- SikaSeal[®]-470 PG can be used as a bolt hole sealant for the WABO[®]FLEX REJ / WABO[®]FLEX SR expansion joint.

FEATURES

- Forms a flexible, elastomeric, weatherproof seal
- Good resistance to deterioration due to weathering
- Good chemical resistance
- Good adhesion to concrete, brickwork, metal, tiling, masonry, stone, steel

CERTIFICATES AND TEST REPORTS

- Complies to ASTM C 920, Type M, Class 25
- Complies to BS EN ISO 11600, Class 25LM

PRODUCT INFORMATION

Packaging	Ready to mix packing	
	4.0 l	(Comp. A + Comp. B)
(Confirm the local available packing and adjust in Child PDS)		
Shelf life	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®-470 PG shall be stored in dry conditions, where it is protected from direct sunlight and at temperatures between +5°C and +30°C.	
Colour	Black and grey	
Viscosity	Pourable liquid	
Shore A hardness	~20	(ASTM C 661)
Movement capability	±25 %	(ASTM C 719)
Service temperature	-20°C min. / +80°C max.	
Chemical resistance	Resistant to many chemicals, contact Sika Technical Department for details.	
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:	
	<ul style="list-style-type: none"> ▪ 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

Yield	Joint length [m] per 1 L	Joint width [mm]	Joint depth [mm]
	16	10	6
	8	15	8
	5	20	10
	3	25	12
	2	30	15

These are approx. consumption and may vary based on actual site conditions.

Ambient air temperature	+5°C to +45°C, min. 3°C above dew point temperature
Substrate temperature	+5°C min. / +45°C max.

Substrate moisture content	Dry joint with sound concrete edges. For joints under wet conditions, use Sika® Primer-101.	
Pot Life	~120 min	23°C/ 50 % RH
Tack free time	~24 h	
Applied product ready for use	Initial cure time for light traffic	Final cure for chemical attack or water immersion
	24 h (at 23°C) 5 h (at 40°C)	14 days (at 23°C) 7 days (at 40°C)

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.
- Internal Reference - Version: M_B_S_CC-EG/SI_PG470_06_06/v3/07_17

FURTHER DOCUMENTATION

- General Method Statement (GMS)

IMPORTANT CONSIDERATIONS

- Sealant joint movement should not exceed $\pm 25\%$ of the joint width when installed in a width to depth ratio of 2 : 1.
- SikaSeal®-470 PG is not chemical resistance to chlorinated solvents, aromatic solvent and diluted oxidizing acids.
- SikaSeal®-470 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.
- 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.

Concrete and Masonry

- Surfaces must be clean and dry. Wire brush thoroughly and remove dust and all contaminants.

Metals

- Remove any corrosion or millscale by grit or shot-blast, wirebrush, grinder or chemical remover.
- De-grease the surfaces with clean cloths soaked in oil-free cleansing solvent.

Wood (bare)

- Wood surfaces must be clean and dry, cut back or abrade where necessary to sound timber.

Glass and glazed materials

- Thoroughly clean the surfaces with clean cloths soaked in oil-free cleansing solvent.

Coating surfaces

- Coating should be removed and the surfaces treated as above.

Priming

- Application of Sika® Primer-101 should not be carried out below 5°C.
- A single coat of primer should be applied by brush in accordance with the instructions on the primer tins.
- Sika® Primer-101 must be allowed to dry to a tack free state before applying SikaSeal®-470 PG.
- SikaSeal®-470 PG should be applied within 3 hours of primer, otherwise repriming will be necessary.

MIXING

- Mix and use one complete unit at a time. Do not subdivide.
- Pouring grade is supplied in separate base and catalyst units.
- Sometimes slight settlement may occur in the catalyst, mix well, before adding to the base component.
- Mixing curing agent with base material for 5-10 minutes using a suitable paddle fitted to a 500 rpm electric drill moving the paddle completely through the mass of the material. The sides and base of the container should be periodically scraped down with a palette knife to ensure all of the catalyst is completely blended with the base compound.
- Failure to completely disperse catalyst throughout the base compound will result in uncured sealant.
- Once mixed SikaSeal®-470 PG should be used immediately.

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APPLICATION

- Where required, protect the surface with masking tape.
- The properly mixed material can be poured directly into joint.
- Remove masking tape.

CLEANING OF EQUIPMENT

- Application equipment should be cleaned immediately with Sika® Colma Cleaner, acetone or any suitable cleaning solvent 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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