

PRODUCT DATA SHEET

SikaSeal[®]-420

Self-levelling, epoxy-urethane, load-bearing, control joint filler

DESCRIPTION

SikaSeal[®]-420 is a self-levelling, two-component, epoxy-urethane, catalyst-cured, sealant for load bearing, saw cut or preformed control joints. SikaSeal[®]-420 achieves its excellent properties through unique urethane-epoxy polymer chemistry

USES

- As a filler for interior, horizontal saw cut or control joints subject to load bearing conditions involving impact and wear
- Preformed control joints in facilities such as Warehouses
- Repairing interior concrete slabs that have experienced random cracking

CHARACTERISTICS / ADVANTAGES

- Hard load bearing sealant designed to withstand industrial traffic
- Provides for even load transfer across floor joints, thereby protecting joint edges from breakdown
- Seals joints from collecting dirt, dust, and debris
- Easily installed by pouring or gunning

PRODUCT INFORMATION

Chemical Base	Epoxy / urethane	
Packaging	2ltr kits	
Shelf Life	12 months in original, unopened packaging	
Storage Conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry condition at temperatures between +5 °C and +30 °C. Always refer to packaging.	
Solid content by weight	100%	
Shore A Hardness	65 - 75	(ASTM D 2240)
Movement Capability	~5%	

APPLICATION INFORMATION

Consumption	Joint Depth	Joint Width	
		3mm	6mm
	25mm	26m	13m
	32mm	20m	10m
	38mm	17m	8m
	44mm	15m	7m
	51mm	13m	6m
Ambient Air Temperature	Min. 10°C – max. 30°C		
Relative Air Humidity	max.80%		
Substrate Temperature	Min. 10°C – max. 35°C		
Substrate Moisture Content	< 4%		
Pot Life	~ 20 Minutes		
Tack Free Time	~12 hours (ASTM C 679)		

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.

USES

Sealant should be placed to full saw cut depth.
Do not thin SikaSeal®-420. Solvents may prevent proper cure.
Do not apply through standing water or on damp surfaces.
Minimum concrete age: 28 days
Best performance achieved if concrete is 90 days or older.
Concrete or masonry must be tested for water-vapour transmission prior to application.
Not designed for use under constant immersion.
For applications in non-moving joints only (max. 5% joint movement).
Do not apply floor overlays using solvent-based adhesives over SikaSeal®-420 filled joints.

ECOLOGY HEALTH AND SAFETY

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Substrate must be clean and sound. It has to be dry. Remove dust, laitance, grease, curing compounds, impregnations, waxes foreign particles, and disintegrated materials.

MIXING

Mix complete units. Premix each component. Slowly add entire contents of components B to A and mix until uniform in colour. Mix thoroughly for 3 minutes with a slow-speed drill (300-450rpm) using a paddle

APPLICATION METHOD / TOOLS

Pour SikaSeal®-420 into the construction control joint or use low-pressure extrusion equipment. Maintain a steady flow of material. Both applications require care to eliminate overlapping as this may cause bubbling within the material. Place SikaSeal®-420 to full joint depth. Tool the applied sealant 10 to 20 minutes after placing to release entrapped air in the surface layer

CLEANING OF TOOLS

Uncured material can be removed with Sika® Colma® Cleaner. Cured material can only be removed mechanically

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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