

PRODUCT DATA SHEET

Sikadur[®]-51

Epoxy flexible resin for sealing joints

DESCRIPTION

Sikadur[®]-51 is a 2 component, 100% solid and self-levelling epoxy adhesive and sealant for joint sealing.

USES

Sikadur[®]-51 may only be used by experienced professionals.

- Filling of horizontal control and construction joints and filling of cracks without movement.
- For use as a flexible adhesive on substrates such as concrete, wood, masonry and stone.

CHARACTERISTICS / ADVANTAGES

- Permanent flexibility, does not harden over time.
- Prevents deterioration of joint edges.
- Excellent adhesive properties
- Complies with ACI-302.1R (4.10-Materials for sealing joints).
- It can be used on slopes of up to 15%.
- Absorbs shock, is durable and resists heavy traffic and forklift tires.
- It can be used as a safety sealant.

PRODUCT INFORMATION

Packaging	Set of 10 kg (Parts A + B)	
Colour	Light gray	
Shelf Life	2 years in the original unopened package.	
Storage Conditions	Between + 4 ° C and + 35 ° C. Condition the material at a temperature between 18 ° C to 24 ° C before use.	
Density	~ 1.22 kg/l at 23°C	
Viscosity	Comp. A:	5.800 cps
	Comp. B:	7.900 cps
	Mix A + B :	7.000 cps

TECHNICAL INFORMATION

Shore D Hardness	> 50
Tensile Strength	3.9 MPa
Modulus of Elasticity in Tension	19.3 MPa
Elongation at Break	90 %
Water Absorption	1.86 %

APPLICATION INFORMATION

Mixing Ratio	Comp. A : Comp. B = 1 : 1 (by volume)			
Consumption	Approx. 0.3 kg / ml in joint 5 mm wide and 50 mm deep. The following table indicates the approximate number of linear meters of board per kg of product (mixture A + B):			
	Joint width	Prof. 40 mm	Prof. 50 mm	Prof. 60 mm
	3 mm	6.8 m	5.5 m	4.6 m
	5 mm	4.1 m	3.3 m	2.7 m
	10 mm	2.0 m	1.6 m	1.4 m
	15 mm	1.4 m	1.1 m	0.9 m
Pot Life	Volume	Time		
	3,8 l	20 - 25 min		
	250 ml	40 min		
Curing Time	7 to 8 hours			

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 dilute. The use of solvents can affect the product.
- The minimum temperature of the substrate at the time of placement must be + 4 ° C.
- For best results, the materials should be maintained at a temperature between + 18 ° C and + 24 ° C during application.
- Do not apply on standing water.
- This material should not be applied before the concrete is 28 days old. It is recommended to do it between 60 to 90 days, when the contraction by drying of the concrete has almost reached its totality.
- This material forms a vapor barrier after drying.
- The transmission of moisture or water vapor in concrete or masonry should be verified before application.
- Material not designed for use in constant immersion of water or any other liquid.
- For application only in joints without movement.
- The good performance of Sikadur®-51 depends on several factors: an adequate design of spacing, width and depth of the joints, thermally stable areas, stable humidity of the support base of the slabs, etc.
- To ensure a complete load transfer, when sealing control and / or construction joints, the depth of the same must be completely filled.
- Sikadur®-51 may change color over time, especially if exposed to ultraviolet radiation, artificial heaters or intense lighting.
- For applications other than sealing joints, consult the Technical Department.

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

The substrate must be clean and firm. It can be dry or humid but without puddles. All dust, cement slurry, grease, curing agents, impregnations, adhesion inhibitors, waxes and any other contaminants must be removed.

The concrete must be clean and prepared, removing the surface grout and giving it an open pore texture by abrasive treatment or equivalent mechanical means.

MIXING

Premix each component. Pour Component A and Component B into a clean container in equal parts by volume. Mix appropriately with a low speed drill (400 to 600 rpm) for at least 3 minutes until the consistency and color are uniform. Mix only the amount that will be applied within the product's lifetime.

APPLICATION METHOD / TOOLS

Pour the Sikadur®-51 mixture into the prepared joints or use low pressure extrusion equipment. Allow the material to flow slowly, to settle and self-level until the board is completely filled. Scrape and remove excess material where required before it hardens.

CLEANING OF TOOLS

The uncured material can be removed with water and soap or solvent. Follow the instructions for use and warnings of the solvent manufacturer. The dry product can only be removed mechanically.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from coun-

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try 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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