

Product Data Sheet

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Identification no:

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Sikaflex®-Construction (D) (Provisional)

(Template for local translation, only for internal use)**Sikaflex®-Construction (D) (Provisional)****1 Component Polyurethane Sealant for Building Joints**

Product Description	Sikaflex®-Construction (D) is a 1-component, moisture curing, elastic joint sealant based on polyurethane. Suitable for indoor and outdoor applications.	
Uses	Sikaflex®-Construction (D) is suitable for sealing joints in building construction such as balcony parapets, connection joints (around windows and doors, facades, metal claddings, concrete elements) as well as joints in wood and metal structures.	
Characteristics / Advantages	<ul style="list-style-type: none"> ■ Movements capability 25% ■ Excellent adhesion to many substrates ■ Bubble free curing ■ Very short cut off string ■ Tack free surface ■ High tear strength 	
Tests		
Approval / Standards	ISO 11600 Classification F 25 HM / F 20 LM	
Product Data		
Form		
Colours	White, concrete grey	
Packaging	600 ml sausages, 20 sausages per box	
Storage		
Storage Conditions / Shelf Life	12 months from date of production if stored in undamaged original sealed containers, in dry conditions and protected from direct sunlight at temperatures between +10°C and +25°C.	
Technical Data		
Chemical Base	1-component polyurethane, moisture curing	
Density	~ 1.33 kg/l (colour concrete grey)	(DIN 53479)
Skinning Time	~ 60 minutes (23°C / 50% r.h.)	
Curing Rate	~ 1 mm/24 hours (23°C / 50% r.h.)	
Movement Capability	25%	
Joint Dimensions	Min. width = 10 mm / max. width = 35 mm	



Sag-Flow	0 mm , very good	(DIN EN ISO 7390)
Service Temperature	-40°C to +70°C	
Mechanical Properties		
Tear Strength	~ 6 N/mm (23°C / 50% r.h.)	(DIN 53515)
Shore Hardness	~ 25 after 28 days (23°C / 50% r.h.)	(DIN 53505)
E-Modulus	~ 0.4 N/mm ² at 100% elongation (23°C / 50% r.h.)	(DIN EN ISO 8340)
Elongation at Break	~ 700% (23°C / 50% r.h.)	(DIN 53504)
Elastic Recovery	> 70% (23°C / 50% r.h.)	(DIN EN ISO 7389 B)

System Information

Application Details

Consumption / Joint Design

The joint width should be designed to accommodate the movement capability of the sealant. In general the joint width should be > 10 mm and < 35 mm. The width to depth ration of ~ 2 : 1 should be respected.

Standard dimensions for concrete elements (as per DIN 18540 / table 3)

Joint distance	2	2 - 3.5 m	3.5 - 5 m	5 - 6.5 m	6.5 - 8 m
Joint width	15 mm	20 mm	25 mm	30 mm	35 mm
Joint depth	8 mm	10 mm	12 mm	15 mm	15 mm

Minimum joint width for joints around windows: 10 mm

Joints must be properly dimensioned as changes are normally no longer feasible after construction. Basis for calculation of the necessary joint width are the technical characteristic values of the joint sealant and the adjacent building materials, the exposure of the building elements, their construction and size.

Joint width	10 mm	15 mm	20 mm	25 mm	30 mm
Joint depth	8 mm	8 mm	10 mm	12 mm	15 mm
Joint length/600 ml	~ 7.5 m	~ 4.5 m	~ 2.5 m	~ 1.6 m	~ 1.3 m

The stated values are indications only

Backfilling: Use only close cell, sealant compatible foam backer rods e.g. high resilience polyethylene foam rod.

Substrate Quality

Clean and dry, homogeneous, free from grease, dust and loose particles. Paint, laitance and other poorly adhering particles must be removed. Standard construction rules must be observed.

Substrate Preparation / Priming

Sika Primer-3:

For porous substrates e.g. concrete, aerated concrete and cement plaster
Flash off time: min. 30 minutes, max. 8 hours

Sika® Cleaner-205:

For power coatings EP and PU coatings
Flash off time: 15 minutes

Sika® Primer-21:

For PVC and for mortar in connection joints between PVC and building
Flash off time: min. 30 minutes, max. 8 hours

Sika® Primer-35:

For metals e.g. aluminium, noble steel, galvanised steel
Flash off time: min. 30 minutes, max. 8 hours

Primers are only adhesion promoters. They neither substitute the cleaning of the surface nor improve their strength significantly.

For further information contact Sika® Primer list.

**Application
Conditions / Limits**

Substrate Temperature +5°C min. / +40°C max.

Air Temperature +5°C min. / +40°C max.

Substrate Humidity Dry

**Application
Instructions**

**Application Method /
Tools** Sikaflex® Construction (D) is ready to use.
After suitable joint preparation and properly prepared substrate, the sealant is
gunned into place and tooled with a spatula or suitable smoothing liquid.
When tooling Sikaflex® Construction (D) it's necessary to pressure the sealant to
the joint flanks.

Cleaning of Tools Clean all tools and application equipment with sealant remover / Sika Cleaner
immediately after use. Hardened / cured material can only be mechanically
removed.

**Notes on Application /
Limits** Elastic sealants should not be over painted in general!
Sealant compatible coatings may cover the joint sides to max. 1 mm.
The compatibility must be tested individually according to DIN 52 452-2.
Colour deviations may occur due to chemicals, high temperature, UV-radiation
(especially with colour shade white). A change in colour does not influence the
technical and performance of the product.
Before using on natural stone contact our Technical Service.
Do not use Sikaflex®-Construction (D) as glass sealer, in floor joints and in joints
with permanent water immersion.
Do not use on bituminous substrates, natural rubber, chloropene, EPDM or on
building materials which might bleed oils, plasticisers or solvent.

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.

Health and Safety Information

Please insert additional Standard Health and Safety Information in accordance with local laws which are not already stated in the safety data sheet. For questions contact your Ecology and Safety-Manager.

Protective Measures

To avoid rare allergic reactions, we recommend the use of butyl rubber / nitril rubber gloves. Change soiled work clothes and wash hands before breaks and after finishing work.

Local regulations as well as health and safety advice on packaging labels must be observed.

Important Notes

Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.

Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.

Legal Notes

It may be necessary to adapt this 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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