Sikaflex® Construction

Joint Sealing Compound

Description

Permanently elastic one component joint sealing compound on polyurethane based.

Uses

Universal joint sealing compound for building construction, e. g.,

For movement joints in

- Facades, roofs and floors
- Balcony parapets
- Bridge cantilevers
- Retaining walls
- Subways

For caulking of

- Window sashes and doors
- Skirting
- Wall/floor joints
- Shutter housings
- General purpose

Advantages

- One component, ready for use
- Good adhesion to many substrates
- Good weathering - and aging properties
- Excellent workability, easy to use
- Can be over painted

Max. Joint Width

35 mm

Min. Joint Depth for Expansion joints

8 mm

Max. permissible shear movement

(Longitudinal or transversal to joints)

20% of joint width

Joint Design

a) Facade joints (precast concrete elements) DIN 18540

Joint distance (m) -	2.0	2-3.5	3.5-5	5-6.5	6.5-8

Min. joint dimensions at time of sealant application :

Joint width (mm)	10	15	20	25	30
Joint depth (mm)	8	10	12	15	15

b) For other, common applications:

Sealant-based diameter (joint factor)

Width : Depth upto 10 mm joint width = 1:1

More than 10 mm joint width = 2:1 (min. depth 8 mm)

Min. joint width for window caulking : 10 mm.

Tensile Strength

DIN 52 455

At 60% Elongation +23^{0}C, <0.4 N/mm^2

At 60% Elongation -10^{0}C, <0.6 N/mm^2

Application

Application Temperature

+5^{0}C to 40^{0}C (material and substrate temperature)

Substrate

Clean and dry, free from dust and loose particles. Paint, laitance and other poorly adhering particles must be removed by grinding. Clean joint with compressed air.

Back-up Material

Soft, round or flat polyethylene profiles.

Primer

For the selection of the suitable primer, please consult Sika Primer table or our Technical Department.

Application

Protect joint flanks with masking tape.

Insert back-up profile, apply primer and observe waiting time.

Apply joint sealant with hand - or air pressure gun, avoiding air entrapment. Level sealant with trowel to concave finish.

Where necessary, smooth sealant with clean water, adding a few drops of a synthetic detergent. Remove masking tape before sealant has started to cure. Clean tools immediately after use with Colma Cleaner. Hardened material can only be mechanically removed.

Important Recommendations

- When smoothing sealant, please observe that no smoothing liquid is allowed to penetrate between sealant and joint flank.
- To maintain max. movement capacity, do not overcoat joint sealant completely, only the joint sides should be overcoated to max. 1mm width. Should overcoating be necessary, trials must be carried out to observe adhesion and drying behaviour of coating.
- Insufficient ventilation (lack of moisture) slow curing rate.
- Silicone based products can negatively influence curing as well as bonding properties of sealants.
- Do not apply to concrete substrate treated with transparent coatings (glazed).
- Colour may be influenced by exposed to weathering (chemicals high temperature, UV).

Technical Data

Colour	Concrete Grey
Specific Weight	1.4 kg/l
Shelf Life	12 months from date of product if stored in cool (at +10^{0}C to 25^{0}C) and dry condition.
Packaging	310 ml
Curing System	Moisture curing
Skinning time	4-6 hours (at+23^{0}C/50% r. h.)
Curing Speed (at +23^{0}C/50% r. h.)	2 mm/day
Shore A Hardness DIN 53 505	< 30 after 28 days (at +23^{0}C/ 50% r. h.)
Service Temperature	Dry : -30^{0}C to +70^{0}C Wet : temporary upto +50^{0}C
Elongation at break DIN 53 455	> 400 %
Tensile Strength at Break DIN 53 455	> 1 N/mm^2
Recovery DIN 52 458	> 80%

Safety Instructions

Safety Precautions

To avoid rare allergic reaction, we recommended the use of rubber gloves. Change soiled work clothes and wash hands before breaks or after finishing work.

Important Note

The information given in this data sheet is based on many years' experience and is correct to the best of our knowledge. However, since success of application of our products is dependent on number of factors, we can only be responsible for quality of our products at the time of despatch. Certain changes are possible in the product data sheet as we are constantly endeavouring to improve it through our R&D. Hence, in the event of any doubt on critical parameter, it is advisable to seek clarification from our technical personnel.

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