SIKAHYFLEX 250 FACADE

Product
SikaHyflex® 250 Facade is a 1-component, moisture-curing, low modulus elastic joint sealant for movement and connection joints in the building shell of commercial buildings.

Application examples
SikaHyflex® 250 Facade is suitable for:

- all sealing joints in high rise buildings, non-residential construction, residential construction
- especially for expansion joints in concrete, but also for joints in façades, balconies/galleries, parapets, connection joints (around windows and doors, façades, metal constructions, precast concrete).
- for joint sealing in wooden and metal constructions

Colours and packaging
Aluminium foil package 600ml (20/box):

- white
- beige
- brown
- black
- concrete grey
- mid-grey
- dark grey
- other colours on request

Advantages/Properties

- ✓ Highly resistant to weathering and ageing
- ✓ movement capacity of +100% / -50%
- ✓ (ASTM C719)
- ✓ no foaming during curing
- ✓ little tension on the surface
- ✓ easy to smooth and very good processability
- ✓ very good adhesion on many substrates
- ✓ Solvent- and odour-free
- ✓ very low emissions

Approvals/standards

- according to EN 15651 class 25 LM for use indoors & outdoors and in cold climates
- in accordance with ISO 11600 F 25 LM
- in accordance with DIN 18540 F
- according to ASTM C920, class 100/50 EMICODE EC 1PLUS R, very low emissions
- ISO 16938-1 leaves no stains on marble and natural stone ASTM C 1248 leaves no stains on marble

Technical properties

Property	Value + unit
Chemical basis	i-Cure® technology polyurethane
Density (ISO 1183-1)	1,35 kg/l
Shorehardness A (ISO 868)	20° after 28 days
Temperature resistance	-40°C to +70°C
Application temperature	+5°C to +40°C
Processing time (+23°C / 50% R.V.)	± 50 minutes
Skin formation time (+23°C / 50% R.V.)	± 70 minutes
Movement capacity (ISO 9047)	25 %
Sagging (ISO 7390)	0 mm
Tear resistance (ISO 34) (+23°C / 50% R.H.)	± 5 N/mm
Curing time (+23°C / 50% R.H.)	± 3 mm after 24 h
Elastic recovery (ISO 7389)	>75 %
Elongation at break (ISO 37) (+23°C / 50% R.V.)	± 800 %
Tensile strength (ISO 37)	0,90 N/mm²
Elasticity modulus (ISO 8339)	± 0.3 N/mm² at 100% elongation (23°C, 50% R.H.) ± 0.6 N/mm² at 100% elongation (-20°C)
Approval	ATG 13/2923
Storage conditions/ shelf life	15 months from the production date if stored in unopened, undamaged and originally sealed packaging in dry conditions at temperatures between +5 and +25°C.

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Specific classification

- LEED® EQc 4.1 : successful
- SCAQMD, line 1168 : successful
- BAAQMD, reg. 8, rule 51 : successful

Joint dimension / Consumption

The width of the joint must be in relation to the movement capacity of the joint sealant. In general, the width of the joint should be > 10 mm and < 40 mm. A width/depth ratio of approximately 2:1 must be maintained. For smaller or larger joint widths, please consult us.

Dimensions standard design for concrete elements according to DIN 18 540 / Table 3:

Joint distance [m]	2	2-3,5	3,5-5	5-6,5	6,5-8
Joint width design [mm]	15	20	25	30	35
Joint depth [mm]	8	10	12	15	15

All joints must be properly designed and dimensioned in accordance with the relevant standards prior to construction. The basis for calculating the required joint width shall be the technical properties of the joint sealant and the relevant building materials as well as the exposure of the building, its type of construction and its dimensions.

Approximate consumption

Joint width [mm]	10	15	20	25	30
Joint depth [mm]	8	8	10	12	15
Joint length/600 ml (m)	7,5	5	3	1,6	1,3

Preparation of the substrate / Priming

Surfaces must be clean, dry and free of oil, grease and dust, loose or friable particles. Cement skin must be removed. By very fine sanding the surface of non-porous substrates with a scotch-brite, the adhesion strength can be improved.

Non-porous substrates

Non-porous surfaces, such as metals, powder lacquers, etc. should be sanded with a very fine sandpaper and then cleaned with a clean cloth and activated with Sika® Activator 205. Allow at least 15 minutes for airing off before applying the sealant.
PVC should be pre-treated with Sika® Primer 215 using a clean brush. Allow a drying time of at least 30 minutes (max. 8 hours).

Porous substrates

Porous substrates such as concrete, aerated concrete and cementitious sheeting, mortars, brick, natural stone etc. should be coated with Sika® Primer 3 N by brush or roller. Observe an airing time of at least 30 minutes (max. 8 hours) before applying the sealant.
Primers improve adhesion. However, they neither replace proper cleaning nor greatly improve the cohesion of the substrate. Primers improve the long-term performance of a sealed joint.
Please contact our technical department for more information.

Processing/Tools

SikaHyflex® 250 Facade is supplied ready to use. After a suitable substrate pre-treatment, apply the backing rod to the required depth and, if necessary, apply the primer. Place the sealant in the gun and squeeze SikaHyflex® 250 Facade into the joint, ensuring that the sealant completely touches the sides of the joint and no air is trapped. SikaHyflex® 250 Facade should be pressed firmly against the sides of the joint to ensure good adhesion.
Use masking tape if sharp exact joint lines or particularly precise lines are required. Remove the tape before the joint sealant begins to form a skin. Use a compatible smoothing compound (such as Sika® smoothing compound N) to smooth the joint surfaces. Do not use products containing solvents!

Tool cleaning

Clean all tools and application material immediately after use with Sika® Remover 208 / Sika® TopClean-T. Cured material can only be removed mechanically.

Processing remarks/restrictions

SikaHyflex® 250 Facade can be overpainted with most conventional paint systems. The paint should be tested for compatibility by carrying out preliminary tests and the best results will be obtained if the sealant has first fully cured. Remember that non-flexible paints will not be able to follow the elasticity of the joint sealant and the paint layer will tear.
Do not use solvent-based paints that may damage the sealant.
Discolourations can occur due to exposure to chemicals, high temperatures, UV rays (especially white). However, such discolouration does not affect the technical performance or durability of the product.
Please contact our technical department before using on natural stone.
Do not use SikaHyflex® 250 Facade on bituminous substrates, natural rubber, EPDM or building materials where oils, plasticizers or solvents may be released which may affect the joint sealant. Do not use SikaHyflex®-250 Facade in swimming pools. SikaHyflex® 250 Facade is not suitable for sealing joints that are under pressure from water or for underwater situations.

Value base

All characteristics specified in this data sheet are based on laboratory tests. Actual measurements may vary due to circumstances beyond our control.

Technical data of supplier: 01 2014
The producer reserves the right to make changes. 2024 06 18