

PRODUCT DATA SHEET

Sika® Hybriflex® SMP

High modulus hybrid flooring joint sealant

PRODUCT DESCRIPTION

Sika® Hybriflex® SMP is a one part, chemically curing sealant and adhesive combining the best qualities of silicone and polyurethane technologies. It is specifically designed as a multi purpose floor and wall grade for all concrete saw cuts and cladding applications and/or slab expansion joints, where abrasion resistance is required.

USES

Large expansion joints for:

- Stadia.
- Floors.
- Warehouses.
- Factory floors.
- Sports arenas.
- Shopping centres etc.
- Secure environments where a tamper-resistant sealant may be required e.g. prisons & secure units (supervised or hard-to-reach areas).

CHARACTERISTICS / ADVANTAGES

- Excellent trafficking resistance.
- Good slump resistance - suitable for wide joint applications (up to 65 mm).
- Abrasion resistant.
- Excellent resistance to chemicals and petrol (10 % dilute acids, alkalis, most solvents).
- Good flexibility (Butt Joints $\pm 25\%$, Lap Joints $\pm 25\%$).
- Overpaintable with most paints (compatibility test should be made).
- Can be applied on damp surfaces.
- Durable anti pick formulation for joints subject to idle tampering and acts of vandalism where traditional sealants may be more easily damaged or removed.

APPROVALS / STANDARDS

- ISO11600 Class 25HM Construction Grade (Type F) Sealant.
- CE and UKCA marked under EN15651 for cold climate, pedestrian walkways and façade class 25HM.

PRODUCT INFORMATION

Packaging	600 ml foils, boxes of 12 pcs.
Colour	Grey
Shelf Life	12 months in original unopened containers
Storage Conditions	Store in cool dry conditions between +5 °C and +25 °C
Density	ca. 1.4 g/cm ³
Shore A Hardness	40 \pm 5
Elastic Recovery	>70 % (ISO 7389)
Chemical Resistance	Good resistance to dilute acids and bases
Service Temperature	-40 °C to +90 °C

Joint Design

Trafficked:

Min Width: 6 mm
Max Width: 20 mm
Min Depth: 10 mm

Untrafficked:

Min Width: 6 mm
Max Width: 65 mm*
Min Depth: 10 mm

* For larger joint configuration consult our Technical Services.

Joint Width Calculation

Joint widths are calculated as in BS6213:

$$\text{Width} = \frac{M \times 100}{F} + M$$

Where M = movement and F = movement accommodation factor

Resistance to traffic load

At +20 °C, 50 % RH:
Foot Traffic: 24 Hours
FLT: 4 Days

Salt spray resistance

Excellent (EN 15651-4)

Water resistance

Excellent (EN 15651-4)

APPLICATION INFORMATION

Consumption	Joint Size (mm)	Litre per metre run	Metre per 600 ml foil
	6 x 10	0.06	10
	20 x 20	0.4	1.5
	25 x 20	0.5	1.2
	30 x 20	0.6	1.0
	40 x 25	1.0	0.6
Sagging	None		
Ambient Air Temperature	+5 °C to +50 °C		
Curing Time	At +23 °C and 50 % RH:		
	24 hours: 2 mm		
	48 hours: 4 mm		
	72 hours: 6 mm		
Skin Time	20-55 min (@ +23 °C and 50 % RH) depending on humidity levels and substrate moisture content.		

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

USES

It is the user's responsibility to determine suitability for use. If in doubt, please contact Sika® Technical Services for advice.

- Yellowing can occur in predominantly dark conditions.
- In areas of high UV some darkening/discolouration may occur, this does not affect product performance.
- Staining from plasticiser migration may occur when

used on cast, reconstituted or natural stone such as granite, marble or limestone substrates. Customers should test a sample prior to application.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

All surfaces must be cleaned and be free from dust, grease and frost. Surfaces may be damp, but must have no standing water. For some substrates, priming is not required (except when area is intermittently or permanently immersed). If in doubt contact Sika® Technical Services.

Joints should be designed in accordance with BS 6093. Square cross sections are preferred with a minimum 10 mm depth.

NEW JOINTS: Concrete joints should be sawn, all debris flushed away after cutting, and joints allowed to dry.

RENOVATING OLD JOINTS: Remove all old sealant from existing joint and clean back to sound concrete by wire brushing, grinding or shot blasting.

Fit backing rod and/or joint breakers as required by relevant flooring standards/specifications/codes of practice.

For a neat finish, mask joint edges, removing masking tape immediately after tooling is complete and before sealant skins over.

Primer

Mortar: Use Sika® Primer 3-N.

Improve adhesion to non porous surfaces by using Sika® Aktivator 205.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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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Product Data Sheet

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