

Technical Data

HYBRIFLEX SMP

High Modulus Hybrid Flooring Joint Sealant



Description

HYBRIFLEX SMP is a one part, chemically curing solvent free 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.



Benefits

- Excellent trafficking resistance
- Good slump resistance - suitable for wide joint applications (up to 65mm)
- Abrasion resistant
- Excellent resistance to Chemicals & petrol (10% dilute acids, alkalis, most solvent)
- 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
- Non hazardous to health

Available in

600ml Foil Packs in the following colours:

Grey

Storage

Store in cool dry conditions between + 5°C and 25°C.

Recommended For

Large expansion joints for stadia, floors, warehouses, factory floors, sports arenas, shopping centres etc.

Shelf Life

12 months in original unopened containers.

Specification Compliances

ISO11600 Class 25HM Construction Grade (Type F) Sealant. CE marked under EN156151 for cold climate, pedestrian walk ways and façade class 25HM.

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Health & Safety

Data sheet available to professional user upon request.

Joint Dimensions

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

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

* For larger joint configuration consult our technical services.

Surface Preparation

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

Joints should be designed in accordance with BS6093. Square cross sections are preferred with a minimum 10mm 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 completed and before sealant skins over.

Specific Data

Consistency	Paste
Density	1.4 ± 0.05
Application temperature	+5 to 50°
Service Temperatures	-40°C to +90°C
Skin Formation at 23°C and 50% RH	20-55 Mins depending on humidity levels and substrate moisture content.
Trafficking (at 20°C/50% RH)	Foot Traffic: 24 Hours; FLT: 4 Days.
Sagging	None
Curing at 23°C and 50% RH	24hrs: 2mm 48hrs: 4mm 72hrs: 6mm
Shore A hardness	40± 5
Modulus	High
Elongation at break ISO 8339	>200%
Water and salt spray resistance EN15651-4	Excellent
Resistance to dilute acids and bases	Good
Resistance to UV radiation	Excellent
Compatibility with paints	Yes; trials recommended

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

Coverage

Joint size in mm	Litre per metre run	Metre per 600ml 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

Primer

Mortar: Use Sika Primer 3-N

Improve adhesion to non porous surfaces by using Primer NP2.

Limitations

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

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