

# 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 a multi purpose floor and wall joint 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 ( $\pm 25\%$ )
- Overpaintable with most paints (compatibility test should be made)
- Can be applied on damp surfaces
- Non hazardous to health

### Recommended For

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

### Specification Compliances

It is specifically designed as an easy flow flooring grade for all concrete saw cuts and floor slab expansion joints, where abrasion resistance is required.

Conforms to ISO11600.



### Available in

600ml Foil Packs in the following colours:

Grey

### Storage

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

### Shelf Life

12 months in original unopened containers.

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### Health & Safety

Data sheet available to professional user upon request.

### Specific Data

Consistency	Paste
Density	1,50 ± 0.05
Application temperature	+5 to 50°
Service Temperatures	-40°C to +90°C
Skin Formation at 23°C and 50% RH	30-90 Mins depending on humidity levels and substrate moisture content,
Trafficking (at 20°C/50% RH)	Foot Traffic: 24 Hours; FLT: 4 Days.
Sagging (ISO 7390)	None
Curing at 23°C and 50% RH	24hrs: 3mm 48hrs: 6mm 72hrs: 8mm
Shore A hardness (ISO869—3 seconds)	30-40
Modulus	High
Elongation at break (ISO 8339)	400%
Water and salt spray resistance	Excellent
Resistance to dilute acids and bases	Good
Resistance to UV radiation	Excellent
Compatibility with paints	Yes; trials recommended
Coverage	Approx. 20 linear metres per foil pack.

### 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.

### Movement Factors

+/- 25%

### 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

### 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 most 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.

### Primer

HYBRIFLEX SMPs does not require a primer on most common surfaces, although adhesion tests are recommended prior to full scale application. If the joint is likely to be immersed or if adhesion is poor (especially on porous surfaces) use EVERBUILD SILICONE PRIMER P1. To improve adhesion (if required) to non-porous surfaces, prime with EVERBUILD SILICONE PRIMER NP2.

### Limitations

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