

## PRODUCT DATA SHEET

# Sika® Hybriflex® FR

Hybrid Based Fire Rated Sealant and Adhesive.

## PRODUCT DESCRIPTION

Sika® Hybriflex® FR is a one part sealant and adhesive product, combining the best qualities of silicone and polyurethane technologies. It is specifically designed as a multi-purpose floor and wall sealant for all concrete saw cuts and cladding applications and/or slab expansion joints, where fire resistance is required. Fire rated up to 4 hours in certain joint configurations.

## USES

High traffic floor joints such as those found in:

- Garage forecourts.
- Warehouses.
- Factory floors.
- Sports arenas.
- Shopping centres.
- Public buildings.
- Schools.
- Railway stations.
- Airport terminals.
- Off shore structures, oil terminals etc.

## PRODUCT INFORMATION

Chemical Base	STP
Packaging	600 ml Foil Pack
Colour	Grey
Shelf Life	12 months in original unopened containers
Storage Conditions	Store in cool dry conditions between + 5 °C and 25 °C
Shore A Hardness	30 - 40
Elastic Recovery	>70 %
Movement Capability	±20 % (ISO 9047 Facade)
Chemical Resistance	To dilute acids and bases - Good

## CHARACTERISTICS / ADVANTAGES

- Good slump resistance.
- Abrasion resistant.
- Excellent resistance to chemicals & petrol (10 % dilute acids, alkalis, most solvent).
- Good flexibility (±20 % façade).
- Overpaintable with most paints (compatibility test should be made prior to full scale application).
- Can be applied on damp/wet surfaces.

## APPROVALS / STANDARDS

- EN1366-4 (linear gap) – Warrington Fire Certificate 195854/A October 2010.
- EN15651-1 type F-EXT-INT-CC Class F20HM.
- EN15651-4 type PW-EXT-INT-CC class PW12.5E.

UV Exposure	Excellent		
Resistance to Weathering	Excellent		
Service Temperature	-40 °C to +90 °C		
Joint Design	<b>Joint Dimensions (trafficked)</b> Minimum width 6 mm; Maximum width 20 mm. <b>Joint Dimensions (un-trafficked)</b> Minimum width 6 mm; Maximum width 30 mm. <b>Joint Width Calculation</b> Joint widths are calculated as in BS6213: Width = (M x 100)/ F + M Where M = movement and F = movement accommodation factor.		
Tensile stress at specified elongation	0.48 N/mm <sup>2</sup> at 60 % Elongation		
Elongation at break	>250 %		
Consumption	Coverage Joint Size	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
Ambient Air Temperature	+5 °C to 50 °C		
Substrate Temperature	+5 °C to 50 °C		
Curing Time	At +23 °C and 50 % RH 24 hours: 3 mm 48 hours: 6 mm 72 hours: 8 mm		

## 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.

## LIMITATIONS

- Do not use against bitumen or substrates that bleed oil or plasticizers.
- Do not use, store or allow to cure below +5 °C.
- Bonding plastics and rubbers: As quality of specific plastics/rubbers can vary (even batch to batch); preliminary trials are always recommended prior to full scale application.
- 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.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

Mortar: Prime with Sika® Primer 3-N.  
All surfaces must be cleaned and be free from dust, grease and frost. Surfaces may be damp, but 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.

### APPLICATION METHOD / TOOLS

Joints should be designed in accordance with current British Standards. Use backer rod to ensure correct depth to width ratio. 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 completed and before sealant skins over.

## 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 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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