

## PRODUCT DATA SHEET

# EVERBUILD TECNIC® HYBRIFLEX FR

HYBRID BASED FIRE RATED SEALANT AND ADHESIVE.

### PRODUCT DESCRIPTION

EVERBUILD TECNIC® HYBRIFLEX FR 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 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 structure,
- Oil terminals etc.

### CHARACTERISTICS / ADVANTAGES

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

### PRODUCT INFORMATION

Packaging

600ml Foil Pack

<b>Consistency</b>	Paste
<b>Application Temperature</b>	+5°C to 50°C
<b>Services Temperature</b>	-40°C to +90°C
<b>Resistance to UV Radiation</b>	Excellent

### Coverage

Joint Size	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

### APPROVALS / STANDARDS

- EN1366 Part 4 2006 – Warrington Fire Certificate 195854/A October 2010
- EN15651-1:2012 type F-EXT-INT-CC Class F20HM
- EN15651-4:2012 type PW-EXT-INT-CC class PW12.5E

<b>Colour</b>	Grey
<b>Shelf Life</b>	12 months in original unopened containers.
<b>Storage Conditions</b>	Store in cool dry conditions between + 5°C and 25°C.
<b>Shore A Hardness</b>	30 - 40
<b>Tensile Stress at Specified Elongation</b>	0.48N/mm <sup>2</sup> @ 60% Elongation
<b>Elongation at Break</b>	>250%
<b>Elastic Recovery</b>	74%
<b>Movement Capability</b>	±20%
<b>Chemical Resistance</b>	To dilute acids and bases - Good
<b>Resistance to Weathering</b>	Excellent
<b>Service Temperature</b>	-40°C to +90°C
<b>Joint Design</b>	<p><b>Joint Dimensions (trafficked) -</b> Minimum width 6mm; Maximum width 20mm.</p> <p><b>Joint Dimensions (un-trafficked) -</b> Minimum width 6mm; Maximum width 30mm.</p> <p><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</p>

## SYSTEM INFORMATION

<b>Compatibility</b>	With Paints - Yes; Trials recommended
<b>Curing Time</b>	At 23°C and 50% RH - 24hrs: 3mm 48hrs: 6mm 72hrs: 8mm

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

Mortar: Prime with Sika Primer 3-N.

Non Porous Surfaces: Improve adhesion by priming with Primer NP2.

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 our technical department.

### APPLICATION METHOD / TOOLS

Joints should be designed in accordance with current British Standards. 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.

### 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 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.

### 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.

## 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.

## ECOLOGY, HEALTH AND SAFETY

Data sheet available to professional user upon request.

## 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.

### SIKA IRELAND LIMITED

Ballymun Industrial Estate  
Ballymun  
Dublin 11, Ireland  
Tel: +353 1 862 0709  
Web: [www.sika.ie](http://www.sika.ie)  
Twitter: @Sikalreland



Product Data Sheet  
EVERBUILD TECNIC® HYBRIFLEX FR  
May 2019, Version 01.01  
02051402000000010

EVERBUILDTECNICHYBRIFLEXFR-en-IE-(05-2019)-1-1.pdf

