

Technical Data

HYBRIFLEX FR

Hybrid Based Fire Rated Sealant and Adhesive



Description

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 a multipurpose floor and wall sealant for all concrete saw cuts and cladding applications and/or slab expansion joints, where Fire resistance is required. HYBRIFLEX FR has a fire rating of up to 4 hours in certain joint configurations (when tested to EN1366 Part 4 2006 – Warrington Fire Certificate 195854/A October 2010).



Benefits

- 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
- Non hazardous to health

Recommended For

High traffic floor joints such as those found in garage forecourts, warehouses, factory floors, sports arenas, shopping centres, public building, school, railway stations, airport terminals, off shore structure, oil terminal etc.

Specification Compliance

EN1366 part 4 2006.
EN15651-1:2012 type F-EXT-INT-CC
Class F20HM
EN15651-4:2012 type PW-EXT-INT-CC class PW12.5E

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.

Joint Dimensions

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

Untrafficked: Min Width: 6mm
Max Width: 30mm*
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 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.

Specific Data

Consistency	Paste
Application temperature	+5 to 50°C
Service Temperatures	-40°C to +90°C
Joint Dimensions (trafficked)	Minimum width: 6mm; Maximum width: 20mm.
Joint Dimensions (un-trafficked)	Minimum width: 6mm; Maximum width: 30mm.
Elastic Recovery	~70%
Curing at 23°C and 50% RH	24hrs: 3mm 48hrs: 6mm 72hrs: 8mm
Shore A hardness (ISO 868-3 seconds)	30-40
Modulus (ISO8339) @ 60% Elongation.	0.48 High
Elongation at break	>250%
Water and salt spray resistance	Excellent
Resistance to dilute acids and bases	Good
Resistance to UV radiation	Excellent
Compatibility with paints	Yes; trials recommended
Movement Accommodation	±20%
Colour	Grey, White

Movement Factors

+/- 20%

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

Primer

Mortar: Prime with Sika Primer 3-N.

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

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

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.

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