



Specialist Construction Supplies for Repair, Maintenance, Building & Infrastructure

Hybriflex FL Data Sheet

Specification notes

Product: Hybriflex FL

Supplier:

Arcon Construction Supplies
19-20 Prestwood Court
Leacroft Road
Warrington
WA3 6SB

Tel: 01925 852225

Email: mail@arconsupplies.co.uk

Web: www.arconsupplies.co.uk

Call 01925 852225 or visit [Arcon Construction Supplies](http://www.arconconstruction.com)
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Technical Data

HYBRIFLEX FL

High Modulus Hybrid Flooring Joint Sealant



Description

HYBRIFLEX FL 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 an easy flow flooring grade for all concrete saw cuts and floor slab expansion joints, where abrasion resistance is required.



Available in

600ml Foil Packs in the following colours:

Grey

Benefits

- Excellent trafficking resistance – suitable for FLT use when fully cured.
- Abrasion resistant
- Excellent resistance to Chemicals & petrol (10% dilute acids, alkalis, most solvent)
- Good flexibility ($\pm 12.5\%$)
- Overpaintable with most paints (compatibility test should be made)
- Can be applied on damp surfaces

Storage

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

Recommended For

High traffic floor joints such as those found in garage forecourts, warehouses, factory floors, sports arenas, shopping centres etc.

Shelf Life

12 months in original unopened containers.

Specification in Compliance

EN15651 part 1 façade class F12.5E and part 4 pedestrian walkways PN12.5E both include cold climate (-30%)

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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: 40mm*
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 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.

Specific Data

| | |
|--------------------------------------|---|
| Consistency | Paste |
| Density | 1.45 ± 0.05 |
| Application temperature | +5 to 50° |
| Service Temperatures | -40° C to +90° C |
| Skin Formation at 23° C and 50% RH | 20-40 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 | 50-55 |
| Modulus | High |
| Elongation at break ISO 8339 | >200% |
| Water and salt water resistance | Excellent |
| Resistance to dilute acids and bases | <10% concentration. Petrol, Diesel and Oil |
| Resistance to UV radiation EN15651-4 | Excellent |
| Compatibility with paints | Yes; trials recommended |
| Coverage | Approx. 20 linear metres per foil pack. |
| Elastic recovery (ISO7389) | 83% |

Movement Factors

+/- 12.5%

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: Prime with Sika Primer 3-N

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

Limitations

- Allow sufficient curing time before trafficking.
- 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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