



# Technical Data



## HYBRIFLEX 40

High Modulus Hybrid Based Adhesive And Sealant

### Description

HYBRIFLEX 40 is a high modulus, one component, hybrid based sealant and adhesive that remains permanently elastic and has good adhesion to most substrates.

### Available in

C3 Cartridges in the following colours:

White  
Grey

### Benefits

- Excellent chemical resistance.
- Excellent resistance to solvents when cured.
- Bonds to concrete, wood, metal, aluminium, polyester, glass, uPVC, stone, ceramics, etc.
- Over paintable with gloss and emulsion paints - preliminary test required before use.

### Storage

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

### Shelf Life

15 months from date of manufacture.

### Recommended For

Sealing and bonding metal panels and trim. Expansion joint sealing in concrete panels, floor joint and road and bridge construction. Sealing in applications subject to vibration and mechanical abrasion. Marine applications - provides resistance to salt water. Multitude of sealing and bonding applications in the automotive and engineering markets. Bonding in container fabrication.

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

### Specification Compliances

- EN15651-1:2012 type F-EXT-INT-CC  
Class F12-5E  
EN15651-4:2012 type PW-EXT-INT-CC  
Class PW12.5E



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#### Health & Safety

Data sheet available to professional user upon request.

#### Specific Data

Base:	Hybrid
Curing System:	Moisture Cure
Skin Formation	20-40Mins at 20°C 50% relative humidity
Cure Time:	2mm per 24 hours
Hardness: ISO 868	50 (+/-5) Shore A
Shrinkage: ISO 10563	<5%
Specific Gravity: ISO 1183-1	Approx. 1.45
Service Temperature:	-40°C to 90°C
Application Tempera-ture:	5°C to 30°C
Elastic recovery (ISO7389)	83%
Elongation at Break: ISO 8334	200%
Elasticity Modulus 60%: ISO 8334	21Mpa
Resistance to Acids/ Bases/Solvents:	Average. Mild acids/ bases at < 10% concentration
Paintability	Water Based - Yes Solvent Based - Trial Necessary

#### Joint Dimensions

Joint depth should never exceed width. If so use EVERBUILD FIX AND FILL FOAM, EVERBUILD JOINT BACKER ROD or BOND BREAKING TAPE in cases where there is not enough depth to use Backer Rod.

Furthermore, ensure that the joint design only permits adhesion to two surfaces, as three sided adhesion will impair flexibility.

#### Movement Factors

Flexibility +/- 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 310ml tube
5 x 5	0.025	12.4
5 x 10	0.050	6.2
10 x 10	0.1	3.2
15 x 10	0.15	2.1
20 x 10	0.2	1.6

#### Surface Preparation

All surfaces must be clean, dry and dust free. All loose or flaking surface coatings, and old sealant and mastic joints, should be removed before application. Glass, metal and aluminium should be cleaned with a proprietary solvent cleaner prior to application for optimum adhesion. When using solvents, always ensure adequate ventilation. Avoid heat, sparks and open flames. Observe and follow all precautions listed on the solvent container label.

It is not recommended for application to surfaces that are below 5°C as it is impossible to guarantee a dry, frost-free surface at these temperatures. It is unlikely that priming will be required. Concrete must be sealed using a Primer. If in doubt consult Technical Services.

#### Primer

On porous substrates like concrete use Sika Primer 3-N.

On non-porous if needed use silicone Primer NP2.

#### Limitations

- Not for use on substrates that may bleed oils, solvents or plasticisers.
- Do not use on bitumen or asphalt.
- Do not use for potable water tanks.
- 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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