

# Technical Data

## PURAFLEX 40

High Modulus P.U Based Adhesive And Sealant



### Description

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

### Benefits

- Excellent chemical resistance.
- Bonds to concrete, wood, metal, aluminium, polyester, glass, uPVC, stone, ceramics, etc.
- Over paintable with gloss and emulsion paints - preliminary test required before use.
- CE Marked to types FEXT-INT CC and PW EXT-INT CC
- Solvent free (EMICODE EC 1<sup>PLUS</sup>R Very Low Emissions).
- Passes LEED EQc 4.1, SCAQMD, Rule 1168 and BAAQMD, Reg 8, Rule 51

### 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.

Food stuff area usage (ISEGA Certificate)

### Specification Compliances

It is resistant to most solvents and when cured and can be over painted with oil and latex paints.

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

C3 Cartridges and 600ml Foil Packs in the following colours:

White  
Black  
Grey

### Storage

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

### Shelf Life

15 months from date of manufacture.

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### Health & Safety

Data sheet available to professional user upon request.

### Specific Data

Slump:	N/A
Base:	Polyurethane
Curing System:	Moisture Cure
Skin Formation	70Mins
Cure Time:	3.5mm per 24 hours
Hardness:	~37 Shore A
Shrinkage:	Maximum 10%
Specific Gravity:	Approx 1.3
Service Temperature:	-40°C to 80°C
Application Temperature:	5°C to 40°C
Elastic Recovery:	80% (ISO7389)
Elongation at Break:	~700% (ISO8339)
Elasticity Modulus 100%:	0.60N/mm <sup>2</sup>
Breaking Strength:	1.5N/mm <sup>2</sup> (ISO37)
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.

Reference should be made to the recommended joint ratios.

Joint range of 10 - 35mm.

### Movement Factors

Flexibility +/- 25%.

### 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 - 3N.

### 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.

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