

PRODUCT DATA SHEET

EVERBUILD TECNIC[®] PURAFLEX 40

HIGH MODULUS POLYURETHANE SEALANT AND ADHESIVE

PRODUCT DESCRIPTION

EVERBUILD TECNIC[®] PURAFLEX 40 is a high modulus, one component, PU sealant and adhesive which adheres strongly to most substrates. Provides excellent mechanical resistance (Shore A 37), resistance to most common chemicals and can be overpainted when cured.

USES

- Sealing and bonding metal panels and trim.
- Expansion joint sealing in concrete panels and floor joint.
- Sealing in applications subject to vibration and mechanical abrasion.
- Multitude of sealing and bonding applications in the construction 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.

CHARACTERISTICS / ADVANTAGES

- Bonds to concrete, wood, metal, aluminium, polyester, glass, uPVC, stone, ceramics, etc.
- Over paintable with gloss and emulsion.
- Good sea water resistance.
- Can be over painted with oil and latex paints.
- Specifically designed as an easy flow flooring grade for all concrete saw cuts and floor slab expansion joints, where abrasion resistance is required.

PRODUCT INFORMATION

Chemical Base	Polyurethane
Packaging	300ml cartridge 600ml foil
Colour	White, Black, Grey

Coverage

Joint size in mm	Litre per metre run	Metre per 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

Shrinkage

Maximum 10%

Elasticity Modulus 100%0.60 N/mm²**Paintability**

Water Based - Yes

Solvent Based - Trial Necessary

APPROVALS / STANDARDS

- CE Marked to types FEXT-INT CC and PW EXT-INT CC
- Solvent free (EMICODE EC 1PLUSR Very Low Emissions).
- Passes LEED EQc 4.1, SCAQMD, Rule 1168 and BAAQMD, Reg 8, Rule 51

Shelf Life	15 months from date of manufacture
Storage Conditions	Store in cool dry conditions between +5°C and +25°C
Density	Approx 1.3 g/cm ³

TECHNICAL INFORMATION

Shore A Hardness	~37
Elongation at Break	~700% (ISO37)
Elastic Recovery	75% (ISO7389)
Movement Capability	Flexibility +/- 25%
Chemical Resistance	Average. Mild acids/bases at <10% concentration
Service Temperature	-40°C to 80°C
Joint Design	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.

APPLICATION INFORMATION

Ambient Air Temperature	5°C to 40°C
Curing Rate	3.5mm per 24 hours
Skin Time	70 mins

APPLICATION INSTRUCTIONS

SUBSTRATE 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.
- As paint types vary conduct a trial prior to full application. Some paints have low movement and can show surface cracking.

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

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.

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