

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 30-40), 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 with a monomeric diisocyanate content of less than 0.1 % by weight. Therefore, users do not require training on the safe use of diisocyanates according to Commission Regulation (EU) 2020/1149.

Packaging

300 ml cartridge
600 ml foil

Coverage

Joint size in mm	Litre per metre run	Metre per tube
5 x 5	0.025	12.0
5 x 10	0.050	6.0
10 x 10	0.1	3.0
15 x 10	0.15	2.0
20 x 10	0.2	1.5

Shrinkage

Maximum 10 %

Elasticity Modulus 100 %

0.60 N/mm²

Paintability

Water Based - Yes
Solvent Based - Trial Necessary

APPROVALS / STANDARDS

- CE / UKCA Marked to types F EXT-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
Colour	White, Black, Grey
Density	Approx 1.35 g/cm ³

TECHNICAL INFORMATION

Shore A Hardness	30 to 40
Elongation at Break	~800 % (ISO37)
Movement Capability	Flexibility +/- 25 %
Elastic Recovery	~85 % (100% elongation at +23 °C ISO7389)
Service Temperature	-40 °C to 80 °C
Chemical Resistance	Average. Mild acids/bases at <10 % concentration
Joint Design	Max joint depth should be half joint width. If deeper, use EVERBUILD® FIX AND FILL FOAM or EVERBUILD® JOINT BACKER ROD. Furthermore, ensure that the joint design only permits adhesion to two surfaces, as three-sided adhesion will impair flexibility. BOND BREAKING TAPE, EVERBUILD® BACKER ROD OR CURED EVERBUILD® FIX AND FILL will remove third-side adhesion. Reference should be made to the recommended joint ratios. Joint range of 10 - 35 mm.
Ambient Air Temperature	+5 °C to +40 °C, minimum +3 °C above dew point temperature
Curing Rate	~4 mm per 24 hours (+23 °C and 50 % RH)
Skin Time	~50 mins at 23 °C and 50 % RH

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.

LIMITATIONS

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

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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 propri-

etary 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 to apply 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. Use Sika® Aktivator -205 for non-porous substrates.

APPLICATION METHOD / TOOLS

Ensure surfaces are clean, dry and free from dust or loose particles.

300 ml cartridge: pierce membrane, attach nozzle and apply using a professional gun.

600 ml foil: cut one end of foil, insert into foil applicator gun, apply nozzle.

APPLICATION

CLEANING OF TOOLS

Clean tools and any excess sealant with white

spirit. Once cured remove mechanically.

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 exact product data and uses.

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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