

PRODUCT DATA SHEET

Everbuild Tecnic[®] Hybriflex 40

A high modulus, one component, hybrid based adhesive

PRODUCT DESCRIPTION

Everbuild Tecnic[®] Hybriflex 40 is a high modulus, one component, hybrid based adhesive which adheres strongly to most substrates. Provides excellent mechanical resistance, resistance to most common chemicals and solvents and can be overpainted when cured.

USES

- Bonding metal panels and trim.
- Bonding in container fabrication.
- Suitable for construction and engineering.

CHARACTERISTICS / ADVANTAGES

- 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.

Curing System	Moisture Cure
Shrinkage: ISO 10563	<5%
Application Temperature:	5°C to 30°C
Elasticity Modulus: ISO 8339	~1.0 Mpa
Resistance to Acids/Bases/Solvents:	Average. Mild acids/ bases at < 10% concentration
Paintability	Water Based - Yes Solvent Based - Trial Necessary

APPROVALS / STANDARDS

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

PRODUCT INFORMATION

Chemical Base	Hybrid based
Packaging	295ml Cartridges
Colour	Grey
Shelf Life	12 months from date of manufacture.
Storage Conditions	Store in cool dry conditions between +5°C and +25°C.
Density	1.45g/cm ³

TECHNICAL INFORMATION

Shore A Hardness 50 (+/-5) Shore A

Elongation at Break 200%

Elastic Recovery >60%

Movement Capability Flexibility +/- 12.5%.

Service Temperature -40°C to 90°C

Joint Design

Joint depth should never exceed width. If so use Everbuild Fix & Fill Expanding 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.

Joint Calculation

Joint widths are calculated as in BS6213:

$$\text{Width} = \frac{M \times 100}{F} + M$$

Where M = movement and F = movement accommodation Factor

APPLICATION INFORMATION

Consumption	Joint Size in mm	Litre per Metre Run	Metre per 310ml Tube
	5 x 5	0.025	12
	5 x 10	0.050	6
	10 x 10	0.1	3
	15 x 10	0.15	2
	20 x 10	0.2	1.5

Curing Rate 2mm per 24 hours

Skin Time 20-40 Mins at 20°C
50% relative humidity

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.

Priming

- On porous substrates like concrete use Sika Primer 3-N.
- On non-porous if needed use silicone Primer NP2.
- Metals – Priming not always necessary

APPLICATION METHOD / TOOLS

Ensure surfaces are clean, dry and free from dust or loose particles. Tool down within 15 minutes, clean tools and any excess adhesive with white spirit.

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.

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 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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