

# PRODUCT DATA SHEET

## EVERBUILD TECNIC® HYBRIFLEX 25LM

### AN ADVANCED HYBRID POLYMER BUILDING SEALANT

#### PRODUCT DESCRIPTION

EVERBUILD TECNIC® HYBRIFLEX 25LM is a one part, low modulus, chemically curing solvent free sealant combining the best qualities of silicone and polyurethane technologies. It is specifically designed for adhering most common building surfaces to each other and themselves.

#### USES

Sealing and bonding in almost every application imaginable. For example:

- External and internal perimeter pointing around doors and windows, especially in mobile structures such as caravans and sealing vertical expansion joints, jointing cladding panels and bonding difficult materials such as most plastics, metals and fiberglass.
- Any application requiring high performance, durable sealing and bonding of joints.
- Applications where resistance to chemical spillage is required

#### CHARACTERISTICS / ADVANTAGES

- High bonding strength.
- Interior and exterior Use.
- Can be applied to damp surfaces.
- Totally waterproof & weatherproof.
- Quick curing.
- Overpaintable if required.
- Solvent free.
- Permanently flexible.
- Resistant to chemicals & petrol (10% dilute acids/alkalis, most solvents).
- Excellent primer less adhesion to most surfaces, including metals, most plastics, glass, concrete, plaster, plasterboard, polyester, perspex, glass, wood, enamel, painted surfaces etc.

Viscosity (cP) on manufacture	180,000 - 350,000 at 15-20°C
Resistance to UV radiation	Excellent
Secant Modulus (ISO 8339 23°C)	0.25 N/mm <sup>2</sup>
Maximum Extension (ISO 8339 23°C)	>400%
Temperature Resistance	-40 to +100°C
Application Temperature	5 to 35°C
Consistency	Paste
Compatibility with paints	Water Based: Yes (test compatibility) Solvent Based: No (with alkyd paints)

#### APPROVALS / STANDARDS

- Meets the requirements of ISO11600 F25LM.
- CE Marked to EN15651-1 class F25LM.

## PRODUCT INFORMATION

Packaging	380ml Cartridge
Colour	White
Shelf Life	12 months from date of manufacture
Storage Conditions	Store in cool dry conditions between +5°C and +25°C.
Density	1.40 - 1.50 g/cm <sup>3</sup>

## TECHNICAL INFORMATION

Shore A Hardness	20-30 (ISO 868 - 3 seconds)
Elastic Recovery	74% (ISO7389)
Movement Capability	25% movement accommodation
Joint Design	<p><b>Joint Dimensions</b> - For maximum movement accommodation, it is recommended that:</p> <ol style="list-style-type: none"><li>1. The sealant joint depth should be no less than 5mm.</li><li>2. Joint depth should be 5mm for joints up to 10mm wide.</li><li>3. Joints above 10mm in width should be half the width in depth up to 20mm and minimum 10mm for wider joints.</li></ol> <p>Joint depth may be adjusted to the correct size using EVERBUILD JOINT BACKER ROD or BOND BREAKING TAPE in cases where there is not enough depth to use Backer Rod.</p> <p><b>Joint Width Calculation</b> - Joint widths are calculated as in BS6213: <math>Width = (M \times 100) / F + M</math> Where M = movement and F = movement accommodation factor</p>

## APPLICATION INFORMATION

Consumption	Joint Size (mm)	Litre per metre run	Metres per 380ml Cartridge
	5 x 5	0.025	15.20
	5 x 10	0.050	7.60
	10 x 10	0.100	3.80
	15 x 10	0.150	2.53
	20 x 10	0.200	1.98
Coverage (6mm bead) - approximately 13.4 linear meters per cartridge			
Curing Time	0-2mm / 24 hour at 23°C and 50% RH		
Skin Time	Skin formation @ 23°C and 50% RH is 20-45 minutes.		

## 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. However, concrete must be sealed using a Sika Primer 3-N. If in doubt consult Technical Services. If Primer is desired on non-porous substrates use silicone Primer NP2.

### LIMITATIONS

- Use on overhead applications – Always use in conjunction with mechanical fixings.
- Do not seal mirror edges/plastic sheeting until adhesive has cured.
- In areas of high UV; some darkening/discolouration may occur. This does not affect the performance of the sealant
- Overpaintability: check compatibility with specific paint first before over painting large areas.

- Do not use on surfaces that bleed oils or plasticizers
- Not suitable constant immersion in petroleum / oil
- It is the user's responsibility to determine suitability for use. If in doubt, please contact Technical Services Department for advice.
- Not for use as part of a structural glazing system.
- Not for use in aquarium manufacture.
- Not for use in conjunction with bitumen, or asphalt.
- Yellowing can occur in predominantly dark conditions

## 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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