

Technical Data

HYBRIFLEX 25LM

Low Modulus Construction Sealant



Description

HYBRIFLEX 25LM is a one part, 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.

Benefits

- Meets the requirements of ISO11600 F25LM.
- High bonding strength.
- Interior and Exterior Use.
- Can be applied to Damp Surfaces.
- Totally Waterproof & Weatherproof.
- Quick Curing.
- Overpaintable if required.
- Solvent Free.
- Resistant to temperature extremes -40°C to +150°C.
- Permanently Flexible - 25% movement accommodation.
- 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.

Recommended For

Sealing and bonding in almost every application imaginable. For examples: External and internal perimeter pointing around doors and windows, especially in mobile structures such as caravans and boats, automotive gap filling and sealing, sealing vertical expansion joints, jointing cladding panels and bonding difficult materials such as specialised polymer systems, metals and fiberglass.

Also any application requiring high performance, durable sealing and bonding of joints, and applications where resistance to chemical spillage is required (garage forecourts etc).

Specification Compliances

Meets the requirements of ISO11600 F25LM.



Available in

380ml Cartridge in the following colour:

White

Storage

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

Shelf Life

12 months from date of manufacture.

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Health & Safety

Data sheet available to professional user upon request.

Joint Dimensions

For maximum movement accommodation, it is recommended that:

1. The sealant joint depth should be no less than 5mm
2. Joint depth should be 5mm for joints up to 10mm wide
3. Joints above 10mm in width should be half the width in depth up to 20mm and minimum 10mm for wider joints

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.

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 (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

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. However, concrete must be sealed using a Primer. If in doubt consult Technical Services.

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
- 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

Specific Data

Consistency	Paste
Density	1.48—1.53
Application Temperature	5 to 35°C
Skin Formation at 23°C and 50% RH	30-55 mins
Viscosity (cps) on manufacture	200,000—300,000 at 15-20°C
Curing at 23°C and 50% RH	> 2mm / 24 hr
Shore A Hardness (ISO 868—3 seconds)	25—35
Resistance to UV radiation	Excellent
Secant Modulus (ISO 8339 23°C)	0.29 N/mm ²
Maximum Extension (ISO 8339 23°C)	>450%
ISO11600 Classification	F25LM
Compatibility with paints	Water Based: Yes (test compatibility) Solvent Based: No (with alkyd paints)
Temperature Resistance	-40 to +150°C
Coverage (6mm bead)	Approximately 13.4 linear meters per cartridge

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