

PRODUCT DATA SHEET

Sika® Hybriflex® 25LM

An advanced hybrid polymer building sealant

PRODUCT DESCRIPTION

Sika® Hybriflex® 25LM is a one part, low modulus, chemically curing sealant combining the best qualities of silicone and polyurethane technologies. It is specifically designed for adhering most common building surfaces and to create seals between them.

USES

- External and internal perimeter pointing around doors and windows.
- Weatherproofing for most external applications.
- Parapet & roofline sealing.
- Contraction and dilation joints where stress does not occur until fully cured.
- Sealing vertical expansion joints in brick, stone and concrete.
- Jointing cladding panels.
- 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.

PRODUCT INFORMATION

Chemical Base	STP
Packaging	380 ml 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 ³

CHARACTERISTICS / ADVANTAGES

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

APPROVALS / STANDARDS

Meets the requirements of ISO 11600 F25LM.
UKCA and CE Marked to EN 15651-1 class F25LM.

TECHNICAL INFORMATION

Shore A Hardness	20-30 (ISO 868 - 15 seconds)
Secant Tensile Modulus	~ 0.25 N/mm ² (ISO 8339)
Elongation	>400 % (ISO 8339)
Elastic Recovery	>70 % (ISO 7389)
Movement Capability	25 % movement accommodation (ISO 9047)
UV Exposure	Good
Service Temperature	-40 to +100 °C
Joint Design	<p>Joint Dimensions - For maximum movement accommodation, it is recommended that: The sealant joint depth should be no less than 5 mm. Joint depth should be 5 mm for joints up to 10 mm wide. Joints above 10 mm in width should be half the width in depth up to 20 mm and minimum 10 mm for wider joints. Joint depth may be adjusted to the correct size using a Backer Rod or Bond Breaking Tape in cases where there is not enough depth to use Backer Rod.</p> <p>Joint Width Calculation - Joint widths are calculated as in BS6213: Width = $\frac{(M \times 100)}{F} + M$ Where M = movement and F = movement accommodation factor.</p>

APPLICATION INFORMATION

Consumption	Joint Size (mm)	Litre per metre run	Metres per 380 ml 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

Ambient Air Temperature	+5 to +35 °C
Substrate Temperature	+5 to +35 °C
Curing Time	0-2 mm / 24 hour at 23 °C and 50 % RH
Skin Time	20 - 45 minutes 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

It is the user's responsibility to determine suitability for use. If in doubt, please contact Technical Services Department for advice.

- 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: product is compatible with most water-based paints. The user must check compatibility with specific paint first before over painting large areas. For best results when using water-based paints, overpaint within 24 hours.
- Not compatible with solvent or alkyd paints.
- Do not use on surfaces that bleed oils or plasticizers.
- Not suitable for constant immersion in petroleum / oil.
- Not suitable for permanent immersion in water.
- 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 condi-

tions.

- Staining from plasticiser migration may occur when used on cast, reconstituted or natural stone such as granite, marble or limestone substrates. Customers should test a sample prior to application.

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

Sealant application should be conducted in line with practices laid down in BS8000-16.

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 3N. If primer is desired on non-porous substrates use Sika® Aktivator-205.

- All surfaces to be sealed must be sound and clean.
- Cut the tip of the cartridge, fix nozzle and apply using sealant gun.
- To ensure a proper bond, always smooth down sealant using a spatula or piece of wood wetted with soap and water solution.
- Tool down within 15 minutes of application.

If in doubt consult Sika® Technical Services.

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.

SIKA LIMITED

Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited

Product Data Sheet
Sika® Hybriflex® 25LM
December 2024,
Version 01.01
02051102000000084

3 / 3



BUILDING TRUST

