

Lambert® 25LM

One Component Polyurethane Joint Sealant and Adhesive

Description

Lambert 25LM is a versatile one component polyurethane sealant with a low modulus for sealing building joints. After application the polyurethane cures with atmospheric moisture to form a durable rubber seal.

Uses

- ❖ Expansion joints and various joint sealing in construction
- ❖ Precast and tilt up panels
- ❖ Brick & blockwork
- ❖ Perimeter sealing around doors and windows
- ❖ Granite, sandstone and marble
- ❖ GRC, fiberglass and specialty panel systems
- ❖ Metal frame circumference sealing
- ❖ Water tanks
- ❖ Plasterboard and painted wood
- ❖ Perimeter pointing and curtain wall sealing
- ❖ Wastewater treatment plants
- ❖ Basement tanking

Advantages

- ❖ Single component polyurethane system, ready for use
- ❖ Easy to apply
- ❖ Good elasticity and restoration prevents movement of substrate on thermal change condition
- ❖ Excellent durability
- ❖ Can be overpainted
- ❖ Good adhesion to most common building materials
- ❖ Can be used as an adhesive for bonding Lambert Swellable Waterstops
- ❖ Good weathering and good workability
- ❖ Good slump resistance
- ❖ Excellent waterproofing properties
- ❖ Environmentally friendly product

In general Lambert 25LM has a good adhesion, also without primer, to concrete, brickwork, aluminium, steel, stainless steel, plastics like polyester and most uPVC.

Typical values

Basis		Polyurethane
Density at 20°C		1.20 ± 0.06
Solids Content		>94%
Skin Time at 23°C and 50%HR		60~150 mins
Full Cure Time at 23°C and 50%HR		24~96 hrs
Shore A hardness (Cured)		22~32
DIN53505		
Elongation rate DIN53455		> 600%
Movement capability		±25~50%
UV resistance		Good
Water and salt spray resistance		Excellent
Application temperature		+5°C to +30°C (material and substrate temperature)
Flow	ISO 7390	< 2 mm
Tack free time	23°C / 55% RF	15 minutes
Frost resistant till -15°C during transport		Yes
Shelf life between +5°C and +25°C		12 months
Paintable after curing		Yes
Temperature resistance after curing		-30°C to +80°C
Typical Modulus at 100% elongation		0.38 MPa

Specification

Lambert 25LM meet the following specifications

International	ISO 11600 F-25 LM
Germany	DIN 18540
France	SNJF C 1° catégorie
USA	ASTM C-920-S, NS, 25 TT-S-00230C, class A

Packaging 600 ml per sausage

Colour Grey, Beige, White, Black

Application instructions

Substrate	Clean and dry all surfaces by removing foreign matter and contaminates such as oil, dust, grease, frost, water, dirt, old sealants.
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Back-up material	Install back-up materials such as Lambert BackerCell for the right joint depth and in order to prevent three sides adhesion.
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Primer	Primer is not normally required. For maximum performance on porous concrete surface use Lambert Primer MP. For the selection of the suitable primer for other substrate, please consult Lambert Technical Department. Take care not to trap any air into the bead. Enclosed air could expand with temperature changes and deform the surface of the sealant.
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Application	<p>Lambert 25LM should be dispensed from sausage by means of a barrel gun (available from Lambert distributor). Clip the end of the sausage and place in barrel gun. Screw end cap and fit the nozzle, cut the nozzle at 45 degrees at a suitable size for sealing the joint. Using the trigger to extrude the sealant, to stop depress using the catch plate.</p> <p>Extrude the sealant firmly into the joint. Tool flush within few minutes of application to ensure good contact between the sealant and the substrate.</p> <p>Where a particularly neat finish is required, mask the face edges of the joint before sealing and remove immediately after tooling is completed.</p>
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Limitations	<ul style="list-style-type: none">❖ Not recommended for glazing and not for aquaria, PE, PP, Teflon and bituminous surface❖ Do not apply on not painted wood or on moist substrates as bubbles can be formed then.❖ Should not be applied at temperatures below 5°C
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Design of joints and estimated usage

Joint Dimensions	Width	Depth
	4-8mm	6mm
	10-12mm	8mm
	14-16mm	10mm
	18-20mm	12mm
	22-24mm	14mm

Metres of joint per sausage 600ml for joint sizes (width x depth)

Joint sizes	Metres
4 x 6 mm	25m
6 x 6 mm	16.6m
8 x 6 mm	12.5m
10 x 6 mm	10m
15 x 10 mm	4m
20 x 12 mm	2.5m
25 x 14mm	1.7m
50 x 30mm	0.4m

Health and Safety Lambert 25LM is considered safe in normal use. However, as with any material, good hygiene practices should be followed. Gloves and protective goggles should be worn during application and use

Toxicity Non-toxic

Notes The information, and, in particular, the recommendations relating to the application and end use of Lambert products, are given in good faith based on Lambert’s knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respects 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

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