Technical Data Sheet

Version 02/2024

Profi Pistolenschaum LM

Product Description

Moisture-reactive one-component polyurethane foam system (low monomer: < 0.1% free isocyanates) from the aerosol can. For processing with a PU foam gun. Full yield and optimal foam structure is achieved only by sufficient shaking and moistening. Free from CFC, HCFC and HFC.

Product Properties

- tested sound insulation: $R_{S,w}$ 62 dB
- user-friendly: < 0.1% free isocyanates
- very low emission – EMICODE EC1^{Plus}
- French VOC: A+
- meets the requirements of DGNB/ÖGNI*: Q1 to Q4
- high yield: 35 liters per can
- fire behavior according to DIN 4102-1: B2
- tested airtightness
- easy and fast processing
- dimensionally stable
- excellent resilience
- versatile pistol foam
- safe in the cured condition
- no dwell pressure after curing
- resistant to aging - but not to UV radiation
- frost resistant
- high bonding strength on most building substrates such as masonry, concrete and wood, on insulating materials, metals and many plastics
- excellent adhesion to wood, fiber cement, aerated concrete, concrete, masonry, plaster, XPS and rigid PVC

*Information on meeting the requirements for the DGNB/ÖGNI (line 38 according to the criteria catalog) refers to the status of the requirements as of Time of creation of the technical data sheet.

Areas of Application

windows, roof windows, attic conversion, doors, partition walls, precast walls, roller shutter boxes, air conditioning and ventilation systems, wooden structures, wall openings, airtight Cable penetrations

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Form of Delivery

Foam colour:	white
Packing unit:	12 cans per box
Can:	750 ml

Substrates

Suitable substrates:

masonry, plaster, wood, concrete, aerated concrete, bricks, clinker, plasterboards, fiberboards, various plastics, corrosion-protected metals, styrofoam, various other insulating materials, ceramics, tiles, stone

Unsuitable substrates:

PE, PP, PTFE, oily/greasy surfaces, gypsum, tar, bitumen, silicone, corrosion-prone metals, some powder coatings, release agents

Instructions for Use

The adhesive surfaces must be clean, free from release agents and stable. Dust, grease, oil and loose parts must be removed before processing. For gypsum-based substrates, a suitable gypsum primer is recommended. Moisten dry surfaces before foaming. Metals must be provided with a protective coating to prevent corrosion damage due to moistening prior and after application. Cover adjacent areas sufficiently and put on personal protective clothing. Shake the can well at least 30 times before use. Remove cover/safety cap. Screw foam gun onto the can and foam sparingly/dosed. After foaming the foam should be sprayed again with water. This accelerates the reaction and ensures optimal curing.

An opened can must be processed within 4 weeks. During longer interruptions the shaking is to be repeated. Fill the cavities moderately, as the fresh foam will still be up to expands to approximately 210%.

The optimum can temperature is 20 °C. Deformation-sensitive components must be adequately supported until complete curing of the foam. Low temperatures slow curing significantly. Substrates must have temperatures of over 0 °C during the entire curing time. The gap widths should not be less than 5 mm and not more than 40 mm. For joints over 40 mm, possibly foam in several layers.

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Technical Data

Characteristics	Standard	Value
Fire behavior	DIN 4102-1	class B2
Rated joint sound reduction index $R_{S,w}$ (C; C_{tr})	EN ISO 10140	62(-1; -4) dB joint 20 mm wide, 100 mm deep
Processing temperature can min./max.		+5 to +30 °C
Processing temperature can optimal		+15 to +25 °C
Processing temperature environment min./max.		+5 to +30 °C
Processing temperature environment optimal		+20 °C
Yield free-foamed (20 ° C/65 % RLF)	EN 17333	approx. 35 liters / 750 ml can
Skin-forming time (20 °C/65 % RLF)		approx. 18 - 22 minutes
Cuttable at string thickness 2 cm (20 °C/65 % RLF)		approx. 40 minutes
Form stability (20 °C/65 % RLF)	FEICA EN 17333	± 5 %
Temperature resistance		-40 to +60 °C short term 80 °C
Water vapor diffusion resistance number	EN 12086	μ = 21
Thermal conductivity	EN 12667	0,0365 W/mK
Shelf life (dry, at 20 °C); higher temperatures shorten the storage time		18 months

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Safety Instructions

Wear gloves during processing as the fresh foam sticks strongly and can only be removed mechanically after hardening. Wear safety glasses. Remove fresh foam splashes with INSEBO PU-Universal-Reiniger. Hardened PU foam can only be removed mechanically.

Store upright and cool otherwise the valve may stick. Higher temperatures shorten the storage time.

Please refer to our safety data sheet and the product label for further information on product safety and handling.

Current safety data sheets and further information on our products can be found at www.insebo.com.

Service

Upon request, our trained sales representatives are always at your disposal.

Disposal

For disposal instructions please refer to our safety data sheet and product label.

Additional Information

This technical data sheet advises without obligation and guarantee. The mentioned processing instructions have to be adapted to the prevailing conditions. The user is obliged to check the suitability and application by own experiments in order to avoid failures.

All given descriptions, data, ratios, weights, etc. can change without notice and do not represent contractually agreed properties of the product. Existing laws, standards and regulations are to be observed by the recipient of our products in their own responsibility.

Due to the large number of possible influences during processing and application, a guarantee of certain properties or suitability for a specific application can not be made, own tests are necessary.

The right to make technical changes is reserved.

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Test Certificates

EN ISO 10140	**Rated joint sound reduction index: $R_{S,w}$ (C; C_{tr})= 62 (-1; -4) dB (joint 20 mm wide, 100 mm deep)**
Testing institute:	ift Rosenheim
Test report:	21-004738-PR42
Int. PZ-No.:	PU194

EN 1026	**Air permeability: a < 0.1 m³/[(m*h*(daPa)2/3]**
Testing institute:	ift Rosenheim
Test report:	21-004738-PR42
Int. PZ-No.:	PU194

EN 12086	**Water vapor diffusion resistance number μ = 19**
Testing institute:	ofi Wien
Test report:	21-004738-PR42
Int. PZ-No.:	PU194

EN 12667	**Thermal conductivity λ = 0,0365 W/mK**
Testing institute:	ofi Wien
Test report:	21-004738-PR42
Int. PZ-No.:	PU194

GEV-EMICODE	**EC1^{Plus} – very low emission**
Testing institute:	GEV Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.
Test report:	17937/03.06.13
Int. PZ-No.:	PU193

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