

Soudaband PRO MF1

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Technical data

Material		Impregnated open cell polyurethane foam
Classification according to	DIN 18542:2020	MF1
Fire reaction class	DIN 4102	B1 (difficult inflammable))
Air permeability coefficient (in joint)	EN 12114	$a \leq 0,1 \text{ m}^3/[\text{h.m.}(\text{daPa})\text{n}]$
Impermeability to driving rain (in a joint)	EN 1027	$\geq 1050 \text{ Pa}$
UV light and weather stability	DIN 18542	Requirements fulfilled
Compatibility with adjacent building materials	DIN 18542	requirements fulfilled
Thermal conductivity (λ)	EN 12667	$\leq 0,052 \text{ W/m.K}$
Water vapor permeability (S_d)	EN ISO 12572	$\leq 0.5 \text{ m at } 20 \text{ mm width (= vapor permeable)}$
Water vapor diffusion resistance factor (μ)	EN ISO 12572	≤ 100
Heat transfer coefficient (U)	DIN 4108-3	$0,56 \text{ W}/(\text{m}^2.\text{K})$
Temperature resistance	DIN 18542	$-20 \text{ }^\circ\text{C} \rightarrow 80 \text{ }^\circ\text{C}$
Application temperature		$-5 \text{ }^\circ\text{C} \rightarrow 40 \text{ }^\circ\text{C}$

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. ** This information relates to fully cured product.

Product description

Soudaband PRO MF1 is a multifunctional pre-compressed joint sealing tape, that meets the DIN 18542:2020 class MF1 requirements. This all-in-one joint sealing tape performs all 3 levels of the SWS professional joint sealing system in one single product: driving rain tightness on the outside, thermal and acoustic insulation in the middle and airtightness on the inside of the joint. Soudaband PRO MF1 ensures a durable, long-lasting seal for external joinery on multiple levels. Suitable for so-called tunnel installations such as in solid walls or timber frame constructions, as for pre-wall installations where the window is installed outside the load-bearing wall using a preframe, like SoudaFrame SWI.

Properties

- 3 in 1: airtight, thermally and acoustically insulating, driving rain tight
- Vapor permeable
- UV-resistant
- Weatherproof
- Dustproof
- Self-adhesive backing (= installation aid)
- Durable and permanently elastic

- Neutral and odorless
- Meets GEV EMICODE EC-1 PLUS: very low emission
- Compliant to the (German) RAL good practice installation guidelines of windows and doors acc. to the principle <inside (vapor)tighter outside>
- Easy to apply
- Can be applied in all weather conditions, even in rain or frost.
- No need for pretreatment or finishing
- Non-staining at joint edges

Applications

- Sealing of (connection) joints around windows and doors
- Permanently elastic sealing of connection and expansion joints in masonry, prefabricated elements, concrete, sandwich panels, roof constructions, etc.
- Acoustic insulation of joints.
- Sealing of joints in timber-frame, steel and container construction

Remark: This technical data sheet replaces all previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

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Packaging

Colour: Exterior side and core black, interior side printed

Packaging: Rolls (pre-compressed to approx. 20% of the expanded original thickness), Various sizes available. Please consult the product catalogue, the Soudal website or a Soudal representative.

Shelf life

At least 24 months in original, unopened packaging at a cool and dry storage place, between +1°C and +20°C.

Substrates

Substrates: all usual building substrates

Nature: Clean and free of grease. Slightly moist or slightly dusty substrates are no problem. The joint sides must be parallel (max. 3 degrees deviation).

Joint dimensions

Suitable for joint widths up to 30 mm.

Example: Soudaband PRO MF1 63/4-10

63 = width of the tape (mm) = suitable for a window profile with a depth of 70 mm.

4-10 = application range for MF1, thickness of the tape = width of the joint

The width of the joint must fall within the application range of the joint sealing tape over the entire length of the joint.

Maximum joint width: must be determined at the lowest possible temperature.

Minimum joint width: is the pre-compressed thickness of the tape.

The joint sealing tape must be selected so that the tape width (= joint depth) is at least as large as the tape thickness (= joint width) in application.

Application method

- For application only a spatula, a meter, scissors or a knife and where necessary wooden wedges are required.
- Do not use the first and last part of the roll (approx. 3 cm).
- Always cut the joint sealing tape straight to form a square end.
- When measuring the length/cutting of the tape add approx. 2 cm/m.
- Measure window sides separately and use separate pieces of joint sealing tape instead of 1 long piece. Also take the expansion of the tape on the adjacent side into account.
- Attach Soudaband PRO MF1 to the window (construction element) using the self-adhesive strip. The printed side needs to be on the interior side of the window.
- Do not stretch Soudaband PRO MF1 during installation.
- Connect the tape (at an extension or in the corners) closely to butt joints to form a tight, compressed connection.
- When working in damp or cold conditions Soudaband PRO MF1 can be fixed with wooden wedges until it is expanded.
- Imperfections can be sealed after installation of the tape with Soudafoil 360H, Soudatight Hybrid or Soudaseal 215 LM.
- To ensure optimal performance the corners should additionally be sealed with Soudafoil 360H, Soudatight Hybrid or Soudaseal 215 LM.
- The tape should be stored at room temperature (<20°C), even on the construction site. For temperatures above 20°C, it is recommended to precool the tape. At low temperatures, it is recommended to preheat the tape.

* Consult the Soudal website or a Soudal representative to receive a detailed installation guide.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the label for more information.

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Remarks

- When installing Soudaband PRO MF1, higher temperatures will speed up tape expansion while lower temperatures will delay tape expansion.
- Soudaband PRO MF1 should not come into contact with solvents or aggressive chemicals. If in doubt, consult a Soudal representative.
- Soudaband PRO MF1 is paintable with waterbased paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- This product is elastic and therefore applied layers of paint can crack in joints that experience large movements (large difference in elasticity between sealant and paint).
- Soudaband PRO MF1 is not suitable for sealing against pressurized or (long-term)stagnant water.
- Soudaband PRO MF1 is not suitable for movement joints in façade applications.
- Soudaband PRO MF1 is compressed to approximately 20% of its original thickness and will therefore expand (its compression thickness) up to 5 times. It will meet its performance requirements to DIN 18542 within its designed application range only.

Standards and certificates

- MPA Hannover: MF1, product certificate acc. to DIN 18542:2020
- MPA Hannover: AbP, fire reaction classification B1 acc. to DIN 4102-1
- GEV-EMICODE: EC1+ very low emission

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