

TECHNICAL DATA SHEET

PENOSIL Expanding Tape 300 Pa

Self-expanding polyurethane sealing tape

The self-expanding joint sealing tape BG2 is a pre-compressed sealing tape made from polyurethane foam with acrylate dispersion impregnation, combined with additives and fillers. It is designed for sealing joints in structural engineering applications, including connection and expansion joints between building components and windproof sealing of foils in roof extensions. Supplied on rolls with a high level of pre-compression, it can be used in both new installations and existing joints.

Main benefits

- Corresponds to DIN 18542:2009, stress group 2
- Driving rain tightness (EN 1027) ≥ 300 Pa
- Values ≥ 600 Pa achievable depending on the compression and joint width
- EMICODE® EC1PLUS - very low emission
- Airtight against wind and dust
- Vapour diffusion permeable
- Temperature resistant
- Compatible with most building materials
- Provides thermal insulation
- Provides sound insulation
- Expansion even at low temperatures

Fields of application

- For facade joints
- Door and window frame joints
- Insulating concrete and roof elements
- Timber and log houses
- Soundproofing internal and partition wall joints
- Insulating ventilation and air exchange devices against sound and vibration

**Colour**

Grey.

Package

Tape width (mm)	10	15	10	15	15	20
Joint width (mm)	1,5-2,5		2-4		3-7	
Roll length (m/rl)	18		12		6	
Tape width (mm)	15	20	15	20	15	20
Joint width (mm)	5-10		7-12		10-19	
Roll length (m/rl)	5		5		4	

Storage conditions and shelf life

The guaranteed storage period is 12 months from the date of production subject to storage in the sealed original packaging, watertight and in a cool, dry location at a temperature from +1 °C to +20°C. Protect from direct sunlight, heat radiation, dust, humidity and chemical vapours.

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Adhering

- Concrete
- Bricks and masonry
- Metal
- Wood

Technical classifications and certificates

- DIN 18542:2009, stress group BG1
- CE certified
- EMICODE® EC1PLUS - very low emission

Technical data

Properties	Value	Unit
Stress group (DIN 18542:2009)	BG2	
Building material class (DIN EN 13501)	Class E	
Joint permeability (DIN EN 1026)	an <1	m ³ / (h m dPa ^{2/3})
Driving rain tightness (DIN EN 1027)	≥300	Pa
Service temperature	-30...+100 (max. 130 briefly)	°C
Compatibility with conventional building materials (DIN 18542:2009)	yes	
Sd value for for 50 mm width (DIN EN ISO 12572)	<0,5	m
Caloric conductivity, λ (DIN EN 12667)	0,0396	W/mK

The values specified were obtained at +23 °C and 50% relative humidity, unless otherwise specified. These values may vary depending on environmental factors such as temperature, moisture and type of substrates.

Application instructions

Application conditions

Application temperature range: from +5 °C to +30 °C

Surface preparation

Before installing, make sure the surfaces are clean and dry, with no oil, grease, or dust. Avoid using chemicals that might weaken the bond when cleaning. Keep in mind that rough, uneven, or porous surfaces could affect how well things stick. If the surface isn't good for bonding, apply a primer to stabilize it first.

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Application method

Select a tape that fits the joint's width, then adjust the tape's width to match the joint's depth. Make sure the joint is clean and dry before you begin. Snip off 3-5 cm from both the beginning and end of the tape roll. One side of the tape has an adhesive fabric to secure the sealant to the joint — remove the protective layer from the adhesive strip and press the tape firmly onto the surface. For a tidy appearance, position the sealing tape about 2-3 mm inside the joint's edge. The tape will slowly expand to fill the joint. Refer to the manufacturer's detailed user manual for additional guidance.

Cleaning

You can clean the skin with soap and water. To remove any leftover adhesive, use a petroleum-based cleaner. Be sure to follow safety guidelines.

Limitations

- When used for external sealing in non-hidden component joints, expanding tape must be covered.

Safety regulations

Follow basic hygiene requirements. Empty the packaging thoroughly and dispose of it in accordance with regulations.

Note: The instructions in the present documentation are based on tests carried out by the manufacturer and are presented in good faith. Due to variations in materials and substrates as well as the various application possibilities that are beyond our control, the manufacturer is not liable for the results achieved. In any case, it is recommended to test the product suitability at the place of application. Manufacturer reserves the right to modify products without prior notice. This TDS replaces and supersedes all previous data sheets on the same product.

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