

TECHNICAL DATA SHEET

PENOSIL Premium Expanding Tape 600

Premium Expanding Tape 600 is an impregnated self-expanding sealing tape. It is especially designed as an external weather seal for facade joints and window frame joints directly exposed to very demanding weather conditions. The tape has a BG1 approval according to DIN 18542.

The expanding tape is a flexible polyurethane foam tape impregnated with fire resistant polymeric dispersion. The tape is water-repellent as well as UV-resistant, with driving rain tightness of up to 600 Pa. It protects the joint against moisture and weather effects. The sealant is permanently elastic and moves with the joint.

Fields of application

Expanding tape is used for sealing concrete and masonry facade expansion joints, door and window frame joints and roofing sheets. It can also be used for insulating timber houses and log houses; soundproofing internal and partition wall joints; and insulating ventilation and air exchange devices against sound and vibration.

Product benefits

- Very fast and easy installation
- Permanently elastic
- BG1 certified according to DIN 18542
- EC1 plus – very low emission
- Building material class B1 – hardly flammable material
- UV resistant
- Impermeable to driving rain ≥ 600 Pa
- Airtight against wind and dust, but vapour diffusion permeable
- Temperature resistant and compatible with most building materials
- Provides thermal insulation and sound insulation
- Suitable as exterior finishing, however can be painted with emulsion paints

Application conditions

Ideal application temperature is +5 °C to +30 °C.

Avoid pressure cleaning or using highly acidic solvents.

Expanding tape can be painted over with standard emulsion paints. However, this is not necessary since the tape itself is suitable as external finishing.

Application instructions

Choose the appropriate tape according to width of the joint. Then choose the width of the tape according to depth of the joint. Make sure that the joint is clean and dry. Cut off the first (and last) 3-5cm of the tape roll. One side of the tape is covered with an adhesive fabric for fixing the sealant to the joint. Remove the coating of the adhesive strip and press the tape to the surface. For visual purposes, install the sealing tape 2–3 mm inwards from the edge of the joint. The tape will then start to slowly expand and fill the joint. More detailed user manual available from the producer.

Technical data

Characteristics	Value	Unit
Classification (DIN 18542)	BG1	
Tightness of joints against driving rain Δp (DIN EN 1027)	≥ 600	Pa
Tightness of joint intersections against driving rain Δp (DIN EN 1027)	≥ 600	Pa
Air permeability (DIN 18542, EN 12114)	$a \leq 1.0$	$m^3/(h*m*(daPa)^{2/3})$
UV resistance (DIN 18542)	requirements fulfilled	
Compatibility with adjacent construction materials (DIN 18542)	max +80	°C
Thermal conductivity (DIN EN 12667)	0,043	W / m K
Vapour diffusion thickness (DIN EN ISO 12572), S_d	$\leq 0,5$	m
Vapour diffusion resistance factor (DIN EN ISO 12572), μ	≤ 100	
Reaction to fire (DIN 4102)	B1	
Temperature resistance (DIN 18542)	-30...+90	°C
VOC emission	EC1 plus	

The technical data applies to correctly installed and pressurized sealing tapes.

Colour

Gray and black.

Packaging and product measurements

Pre-compressed tape rolls, packaged in cardboard cartons.

Quantity of tape in roll and in box:

Tape width	Joint width	Roll length
10mm	2-3mm	12,5m
10mm	3-5mm	10m
15mm	3-5mm	10m
15mm	4-7mm	8m
20mm	4-7mm	8m
15mm	6-10mm	5,6m
20mm	6-10mm	5,6m
20mm	8-12mm	4,3m
25mm	8-12mm	4,3m
25mm	10-15mm	3,3m
30mm	10-15mm	3,3m
30mm	12-20mm	3,3m
40mm	12-20mm	3,3m

Storage

Guaranteed shelf life is 18 months from the manufacturing date when stored in a cool and dry place in original packaging at temperatures between +1 °C and +20 °C.

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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.