

TECHNICAL DATA SHEET

PENOSIL Expanding Tape 600Pa

PENOSIL Expanding tape 600Pa is a PUR sealing tape impregnated with a fire-resistant polymeric dispersion. It is specially designed for joints in buildings up to 100 m high, in accordance with DIN 18055. PENOSIL Expanding tape 600Pa fulfils the stringent requirements of the DIN 18542:2020. In addition to providing protection against driving rain to a minimum of 600 Pa (equivalent to wind force 11 – Violent Storm) the vapour permeable joint sealing tape also possesses outstanding thermal and acoustic characteristics, as well as allowing for diurnal movement.

Main benefits

- Complies with the DIN 18542 BG 1 / BG R and DIN 18055
- Reliability through a wider joint application range
- Seals against wind, dust, driving rain
- Vapour diffusion permeable
- Good adhesive properties, to aid application
- Permanently elastic with long term life expectancy
- Can be painted over with standard emulsion paints
- Compatible with all known standard building materials
- Applications in all construction areas and building types are possible
- Constant quality to DIN standards, with regular controls from independent institutions

Fields of application

A versatile product that has a wide range of uses, but generally for sealing construction joints (including moving joints) in areas such as between prefabricated concrete, skylights, cladding panels, curtain walling and perimeter seals for fenestration (windows / doors). Used in a variety of construction methods and industries including, general construction & civil engineering, steel and / or timber framed buildings and modular construction.

Adhering

- Concrete
- Bricks and masonry
- Metal
- Wood

Application instructions

Application conditions

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

Surface preparation

Installation surfaces must be clean and dry, free from oil, grease and dust. Do not clean the surfaces with chemicals containing substances impairing or reducing bonding. Roughness, unevenness or porosity may reduce bonding. Non-bonding surfaces should be stabilised by priming.

Application method

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

Properties	Value	Unit
Service temperature	-30...+90	°C
Classification (DIN 18542)	BG1 & BG R	
Tightness of joints against driving rain (DIN18542)	≥ 600	Pa
Air permeability (DIN 18542, EN 12114)	≤ 1.0	m ³ /(h·m·(daPa) ^{2/3})
Thermal conductivity λ 10,tr (DIN EN 12667)	≤ 0,043	W/(m·K)
Reaction to fire (DIN 4102)	B1	
Water vapor diffusion resistance (DIN/EN/ISO 12572)	≤ 100	
Sd value (DIN/EN/ISO 12572)	≤0,5m for 50mm width (vapour diffusion permeability)	

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.

Colour

Grey, black.

Package

Pre-compressed tape rolls, packaged in plastic bag and larger sizes to carton box.

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.

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.