

TECHNICAL DATA SHEET

Expanding Tape 600 Pa

Self-expanding BG1 polyurethane sealing tape

The self-expanding joint sealing tape is a premium sealing solution crafted from soft polyurethane foam, infused with an acrylate dispersion impregnation, enhanced by specialized additives and fillers. This tape serves as a key component in a 3-layer joint sealing system, delivering exceptional sealing capabilities for construction joints, ensuring long-lasting protection against environmental elements.

Main benefits

- Permanently elastic with long term life expectancy
- Complies with the DIN 18542:2009, stress group BG1
- 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

- Sealing joints around window frames for airtight and weatherproof results
- Ensuring durable seals in timber-based structures
- Securing connections in modular building systems
- Bridging gaps and joints in brickwork and framed assemblies
- Protecting expansion and connection joints in concrete elements
- Sealing expansion and connection joints between building components
- Windproof sealing of foils in roof extensions
- Interior joint sealing, leveraging excellent sound insulation properties



Colour

Black.

Package

Tape width (mm)	10	15	20	15	20	15	20
Joint width (mm)	3-7			7-12		8-15	
Roll length (m/rl)	8			4,3		3,3	

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)	BG1	
Fire behaviour (DIN 4102-1)	B1	
Building material class (EN 13501)	Class E	
Joint permeability (DIN EN 12114)	an <1	m ³ / (h m dPa ² /3)
Driving rain tightness (DIN EN 1027)	≥600	Pa
Service temperature	-30...+100 (max. 130 briefly)	°C
Rated joint noise insulation dimension RST,ω (one sealing tape without insulation and 2nd sealing level, ift SC-01/2:2002-09)	42	dB
Rated joint noise insulation dimension RST,ω (two sealing tapes without heat-insulating layer, ift SC-01/2:2002-09)	59	dB
Weathering resistance (artificial weathering)	>10	years
Weathering resistance (outdoor weathering)	>15	years
Compatibility with adjoining building materials (DIN 18542:2009)	yes	
Resistance to alkaline media	yes	
Tensile strength (DIN EN ISO 1798)	>100	kPa
Elongation at break (DIN EN ISO 1798)	>200	%
Compressive strain deformation properties, 40% deformation (DIN EN ISO 3386)	3,4 (±15%)	kPa
Sd value for 50 mm width (DIN EN ISO 12572)	<0,5	m
Caloric conductivity, λ (DIN EN 12667)	0,0412	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.

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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.

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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