

TECHNICAL DATA SHEET

PENOSIL Butyl Tape AL 440

Butyl sealing tape

PENOSIL Butyl Tape AL 440 is a self-adhering butyl sealing tape with reinforced aluminium film for sealing and joining together various exterior surfaces. Strong adhesion even at low temperatures, with all common building materials and highly resistant to aging and UV rays.

Main benefits

- Waterproof
- Weatherproof
- Vapour impermeable

Fields of application

- Sealing and joining together various surfaces such as door and window frames, conservatories, guttering systems, pipes, ducts, etc.
- Building canopies, roofs, chimneys, etc.
- Sealing and joining materials such as glass, steel, Plexiglass, polycarbonate, wood aluminium, PVC.

Adhering

- Glass
- Steel
- Plexiglass
- Polycarbonates
- Wood
- Aluminium
- PVC

**Package**

10 m roll, Width in mm: 50, 75, 100, 150, 200, 300, 600. Other sizes available on request.

Storage conditions and shelf life

The material quality and characteristics will last a long time. However, it is best to use it within 12 months of its production date. For proper storage, keep the product in its original, unopened packaging in a dry, well-ventilated area, with temperatures between +5 °C and +40 °C. Storing it above +50 °C might make the release liner hard to remove during application. Frost does not damage the product.

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Technical classifications and certificates

- Fire classification: E (EN 13501-1)
- Factor of Resistance to the Diffusion of the Water Vapour: $\mu = 2.720.000$ (UNI EN 1931)

Technical data

Properties	Value	Unit
Compound Type / Colour	Butyl Rubber Adhesive / Grey	-
Thickness	0,8 / 1,0	mm
Tensile strength (EN 12311-1)	Long. 185 Trans. 200	N/50mm
Elongation at break (EN12311-1)	Long. 10 Trans. 20	%
Solids	100	%
180° Peel Adhesion (ASTM D 1000)	28	N/cm
Probe Tack (ASTM D 2979)	7,9	N
Vertical Flow	0	mm
Application temperature	0 to +40	°C
Service temperature	-40 to +100	°C

Application instructions

Application conditions

Air temperature during use: 0 °C to +40 °C.

Surface preparation

Surfaces must be clean, dry and free from any dust, loose particles and oil stains. For rough, uneven, porous and other surfaces that might lack sufficient adhesion, it is recommended to prime surfaces beforehand to improve adhesion. When using the tape at low temperatures (0 °C to +5 °C), ensure the surfaces to be covered with tape are frost and condensation free.

Application method

Cut the tape into desirable length. If the tape is installed in several pieces, consider an extra 5cm of tape for the overlap. Gradually remove the protective film from the tape and press it firmly to the surface. For optimal adhesion, use a pressure roller. Make sure there are no air bubbles between the tape and the surface.

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Limitations

- Surfaces to be sealed must be clean, dry and free from any dust, loose particles and oil stains.
- For rough, uneven, porous and other surfaces that might lack sufficient adhesion, it is recommended to prime surfaces beforehand to improve adhesion.
- Air temperature during use: 0 °C to +40 °C.
- When using the tape at low temperatures (0 °C to +5 °C), ensure the surfaces to be covered with tape are frost and condensation free.
- Check the expiration date!

Safety regulations

Keep out of reach from children! More specific safety information is available on the safety data sheet (SDS).

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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