PENOSIL

TECHNICAL DATA SHEET

PENOSIL Butyl Sealant 444

Butyl Sealant

One-component plastic and durable mastic based on polyisobutylene. In contact with air, the butyl mastic forms a smooth skin, but remains permanently plastic underneath. Provides an excellent primerless adhesion to most common building materials, e.g. concrete, wood, masonry, different metals, glass, many plastics, etc.

Main benefits

- Permanently plastic
- “Self-healing” behavior
- Easy to use
- Excellent UV- and weather resistance
- Very low vapor and gas permeability
- Non-corrosive to metals
- Excellent adhesion to a wide range of porous and non-porous substrates
- Overpaintable
- Practically odorless

Fields of application

- Sealing joints with low movement (max 5%), where high weather resistance and permanently plastic behavior is needed, e.g. metal roof sealing, sealing the lap joints between metal panels together with fasteners, sealing metal window sills, sealing roof flashings, sealing greenhouse flashings.
- Airtight gluing and sealing of different membranes.

Colour

White, grey, black.

Package

For packaging options please consult the sales representative.

Storage conditions and shelf life

Guaranteed storage time 12 months starting from the date of manufacture if stored in a closed original package in a dry place and protected from direct sunlight at between +5 °C and +30 °C.

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Adhering

- Concrete
- Masonry
- Brick
- Tile
- Wood
- Different metals
- Many plastics
- PVC, etc

Technical data

Properties	Value	Unit
Density (DIN 53 479-B)	1,65	g/ml
Resistance to flow (ISO 7390)	0	mm
Application temperature	+5...+40	°C
Service temperature	-20...+75	°C

The parameters indicated have been measured at +23 °C and 50% relative air humidity.

Application instructions

Application conditions

Application temperature between +5 °C and +40 °C.

Surface preparation

The surfaces must be dry, clean from dust and loose particles. Non-porous surfaces should be cleaned with solvent and a clean, non-fluffy cotton cloth. Solvent excess should be removed before evaporating with a clean cloth.

Application method

Cartridge: cut off the threaded end of the cartridge and screw on the application nozzle for directing sealant. Cut the threaded end in a way where a suitable opening for application is produced. Place the cartridge together with the applicator in the gun and fill the installation nozzle with sealant, by repeatedly pressing the gun trigger.
Foil package: open the end of the foil pack and place the pack inside the gun so that the dosing nozzle keeps covering its open portion. Place the dosing nozzle on the open end and screw on the cap to close the tube. Cut the nozzle to create a suitable opening for dosing sealant.
Apply sealant in the joint by repeatedly and evenly pressing on gun trigger and smoothly dragging the nozzle along the joint.
Ensure adequate ventilation in all joint locations. During the curing process, make sure that no impurities can settle on the surface and that the joint surface is not affected by mechanical load.

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Cleaning

Mastic, tools and hands can be cleaned with special cleaning wipes.

Limitations

- Do not use on bituminous substrates or on building materials which might bleed oils, plasticizers or solvents (e.g. natural rubber, chloroprene, EPDM, ...).
- There is no adhesion to PE, PP, PTFE (Teflon®).
- We don't recommend this product to be used for natural stone sealing.
- Due to the wide variety of possible substrates, we recommend a preliminary compatibility and adherence test. If necessary, prime surfaces to improve adhesion.
- Due to the wide variety of influences during and after application, the customer must always test the product first.
- Please observe the expiration date!

Safety regulations

Ensure sufficient ventilation during application and wear necessary personal protective equipment. Keep out of the reach of children. Avoid contact with skin and eyes. 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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Wolf Group Head Office
Suur-Paala 10
13619 Tallinn
Estonia

Tel +372 605 9300
Fax +382 605 9315
info@penosil.com