

TECHNICAL DATA SHEET

PENOSIL Bitumen Sealant 939

Plastoelastic solvent-based sealing paste for a wide variety of applications. Has a high viscosity and can therefore be applied on vertical joints.

- Touch-dries quickly
- Immediately rain and ice resistant.
- Suitable on bituminous materials
- UV proof
- Can be used in moist surfaces and at low temperatures
- Melting temperature over +100 °C
- Will not brittle in cold
- Resistant to diluted acids, alkali, exhaust fumes and weathering.
- High tensile force.

Fields of application

- Roof, chimney and foundation joints
- Insulation of joints between bituminous sheets
- Repairing small leakages and open cracks on flat roofs
- Repairing cracks between metal sheets

Adhering

- Bituminous materials
- Metals
- Concrete
- masonry
- Heating line ducts.

Application instructions

Application conditions

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

Surface preparation

The surfaces must be dry, clean from dust, loose particles and oil. 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. Non-porous substrates may be wet. Porous substrates should be dry.

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. 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. After application, smooth the surface with a suitable tool (e.g., spatula) and remove excess material.

If necessary, the adjacent surfaces of the joint should be protected to avoid staining. Usually, masking tape is being used for this. Protective masking tapes should be removed before the sealant's skin is formed. It is convenient to apply the sealant to the surface also with a filling knife, especially in case of bigger surfaces. If outside temperatures are low for application, the putty should be stored in heated areas to avoid a high viscosity. The skin-over-time of bituminous putty is relatively short and therefore quickly fulfils its task to seal

the joints. The curing time strongly depends on the thickness of the layer of the putty and the surrounding temperature. It generally takes two to three days.

Cleaning

Uncured sealant can be cleaned with solvents like white spirit, acetone or with special cleaning wipes. Cured sealant can be removed mechanically.

Technical data

Properties	Value	Unit
Basis	Bitumen	
Skin forming time	10...12	min
Curing rate	3...4	mm/24h
Application temperature	+5 ... +40	°C
Service temperature	-35 ... +110	°C
Shelf life	18	months
Shore A hardness (ISO 868)	20...24	

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

Black.

Package

300 ml cartridge, 12 pcs in a box.

Storage conditions and shelf life

Guaranteed shelf life 18 months from the manufacturing date when stored in a closed original package in a dry place and protected from direct sunlight at temperatures between +5 °C and +30 °C.

Limitations

- 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. 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.