

TECHNICAL DATA SHEET

PENOSIL HighTemp Sealant +1500°C

Silicate based joint filler for high-temperature applications. Insulation and filling of cracks. Outstandingly workable and smoothable. As the result of heating, the mass will turn dark grey, extra hard and withstands extreme temperatures (short time up to +1500°C).

- After curing withstands temperatures up to 1500°C
- After heating becomes very hard
- Insulates and seals
- No odour
- Suitable for natural stone

Fields of application

- Insulation and sealing works requiring heat resistant
- Insulation of joints and filling cracks in chimneys, ovens, fireplaces and stoves.

Adhering

- Metal
- Stone
- Brick
- Concrete
- Ceramics

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.

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.

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.

For complete curing, slowly heat the sealant up to 250°C

Cleaning

Uncured acrylic can be removed with water or with PENOSIL Cleaning Wipes.

Cured acrylic should be first removed mechanically and then with a moist cloth.

Technical data

Properties	Value	Unit
Basis	Waterglass	
Density (DIN 53 479-B)	2,04	g/ml
Tack free time	2...4	min
Curing rate	1...2	mm/24h
Resistance to flow (ISO 7390)	0	mm
Application temperature	+5...+40	°C
Service temperature	-30...+1500 (short period)	°C
Shelf life	12	months
Shore A hardness (ISO 868)	75	

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

280 ml cartridge, 12 pcs in a box.

Storage conditions and shelf life

Guaranteed shelf life 12 months from the manufacturing date when stored in closed original package in a dry place at temperatures between +5 °C and +30 °C. Avoid freezing and temperatures over +30 °C.

Short-term resistance to freezing, max 10 days at temperatures over -18 °C.

Freeze-thaw resistance 7 cycles at temperatures -18 °C and +23 °C, one cycle lasting 48 hours (24 hours at -18 °C and 24 hours at +23 °C).

Limitations

- It should not be applied on bituminous or tar containing substrates, and to materials that bleed oils or plasticizers. Do not use in damp or wet conditions or if rain is imminent.
- Exercise care during any contact with metal, since metal moves when exposed to temperature whereas sealant does not.
- Not recommended for applications in constant contact with water.
- Unheated product is not waterproof and will spread in a wide joint.
- 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.