

TECHNICAL DATASHEET

PENOSIL Premium +1500 °C Sealant

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). Suitable on natural stones.

Field of applications

Insulation and sealing works requiring heat-resistance. Insulation of joints and filling of cracks in chimneys, ovens, fireplaces and stoves, suitable for sealing soot doors.

Adheres to metal, stone, brick and concrete substrates. Exercise care during any contact with metal, since metal moves when exposed to temperature whereas sealant does not.

Application conditions

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

Application instructions

The surfaces must be clean from dust, loose particles and oil. Non-porous surfaces should be cleaned with solvent and a clean, non-fluffy cotton cloth. Solvent rests should be removed before evaporating with the clean cloth. Very porous surfaces should be previously slightly moistened.

310 ml 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 rubber silicone scraper or putty knife and remove excess material. In some cases, it is more convenient to use plaster spatula.

After the final solidification, slowly heat the sealant up to +250 °C. As the result of heating, the mass will turn dark grey and become extra-hard.

Cleaning

Uncured sealant, use a cloth dampened with water or the PENOSIL Premium Cleaning Wipes. Cured sealant can be removed mechanically only.

Technical data

Properties	Unit	Value
Skin forming time	minute	3-4
Curing time	mm/24 h	1-2
Density (DIN 53 479-B)	g/cm ³	2,04
Extrusion rate (2 bar, Ø3mm)	g/min	30-40
Properties of cured sealant		
Hardness (Shore A) (ISO 868)		before heating 75±5
Movement of the joint (ISO 11 600)	%	± 0
Temperature resistance after curing	°C	short time up to +1500

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

Colour

Black.

Package

310 ml cartridge, 12 pcs in a box.

Storage conditions

Guaranteed storage time 12 months starting from the date of manufacture if stored in a closed original package in a dry place between +5 °C and +30 °C. During transport for short periods at up to -5 °C. Do not store near open flames or active heat source.

Limitations

Not suitable in moving joints and in contact with materials that expand or contract when exposed to temperature. Unheated product is not water proof and will spread in a wide joint.

Safety regulations

Ensure sufficient ventilation during application. Keep out of the reach of children. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with water and seek medical advice.

Cured sealant can be handled without any danger to health.

Detailed safety information is available on safety data sheet (SDS).