

TECHNICAL DATASHEET

PENOSIL Premium PU-Sealant Low Modulus

High-quality moisture-curing sealant with a low elasticity modulus for sealing concrete buildings. Adheres to most building materials such as stone, metal and wood materials, glass, plastic and porous surfaces. Resistant to water, cleaning agents, oils, carbohydrates, acids and diluted alkali. Insulates and seals in both indoor and outdoor conditions. Cured sealant is UV, moisture and weatherproof.

Field of applications

Sealing in facade works of concrete buildings. Sealing of door and window frames in concrete buildings. Sealing of varnished surfaces in concrete buildings. Joining elements made from porcelain, steel, stainless steel, plastic (polyester and many PVCs), painted wood, concrete and bricks.

Product has been tested and is classified accordingly:

Sealant for facade for interior and exterior application, intended for use in cold climate.
EN 15651-1:2012: Type F-EXT-INT-CC: CLASS 25LM

Application conditions

Application temperature between +5 °C to +35 °C. The surface must be clean from dust, loose particles and oil. Prior to using the sealant, let the concrete surfaces dry for at least 4 weeks.

Make an adhesion test of silicone-coated surfaces in order to verify the chemical and adhesion compatibility of materials, also check the colour.

The size of the joint should be selected in accordance with the moving of the joint. The width of the joint should be 8 to 35 mm, the depth of the joint should equal the width of the joint. Should the joint be wider than 10 mm, the depth of the joint should be a half of the width of the joint. High moisture level slows down the drying process.

Only completely cured sealant may be painted with an adhering dispersion paint (acryl, vinyl). A paint test should be made before. Movement of the joint may cause cracking in the painted surface.

Chemical Resistance: Resistant to water, detergents, oils, hydrocarbons, acids and diluted alkalis.

As polyurethanes are sensitive to UV, clear colours may change in time. This change only concerns the appearance and has no effect on the mechanical properties of the cured product.

Application instructions

Open the application nozzle of the gun, insert the package in the gun and open on the applicator side by removing the fastening clamp. Place the applicator nozzle on the opened end and screw on the cap.

It is recommended to apply a thin layer of PU-primer on porous surfaces in order to improve their adherence. After the primer has dried, lay a joint cord not adhering to PU-sealant on the bottom of the joint. Apply sealant in the joint by repeatedly and evenly pressing on gun trigger and smoothly dragging the nozzle along the joint.

Wider joints should be covered in three application sessions, by covering the two side parts and thereafter the bottom of the joint. Press the sealant thoroughly against the edges and the joint bottom, until no air bubbles emerge anymore. After application, smooth the surface with a rubber silicone scraper or with the help of soapy water and remove excess material. Remove the tape from the joint edges.

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Cleaning

Uncured sealant can be removed with acetone, hands can be cleaned with Penosil Premium Cleaning wipes. Cured sealant can only be removed mechanically.

Technical data

Properties	Unit	Value
Skin forming time	Minute	90–150 min.
Curing time	mm/24 h	3
Density	g/cm ³	1,15±0,02 – black,brown 1,17±0,05 – other colours
Properties of cured sealant		
Modulus at 100%, ISO 8339	MPa	approx.0,4
Elongation at break, ISO 8339	%	>400
Movement of the joint	%	25
Hardness (Shore A) (ISO 868)		approx. 25
Temperature resistance after curing	°C	-50 to +80

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

Colour

Grey, brown, black, white.

Package

600 ml foil package, 20 pcs in a box.

Storage conditions

Guaranteed storage time 18 months starting from the date of manufacture if stored in a closed original package in a dry place between +5 °C and +25 °C.

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