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TECHNICAL DATASHEET

PENOSIL Premium Glazing Silicone

One-component, low modulus, high quality glazing silicone. Alkoxy curing, reacts with the atmospheric moisture producing a flexible rubber extremely resistant. It does not content corrosive or strong smell additives. Preserves all properties of elasticity and adherence with no ageing problems, remaining stable in front of atmospheric agents.

- High movement capability (±25%) and low modulus.
- UV radiation, weather and ageing resistant.
- Non- corrosive to metals.
- Excellent adhesion to a wide range of porous and non-porous substrates.
- Low odour.

Field of applications

Mainly being used for glazing application, for example sealing glass partition walls, glazing of windows and glass doors, weathersealing of glass facades.
Adheres well to porous and non-porous substrates including glass, aluminium (lacquered, anodized, painted, etc.), concrete, masonry, ceramic brick, PVC, wood, ceramics.

Technical classifications and certificates

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

Sealant used for sealing glazing applications, suitable for use in cold climate
EN 15651-2:2012: Type G-CC: CLASS 25LM

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 a clean cloth.
Expansion joint width should be designed to accommodate the movement capability of the sealant. In movable joints, polyethylene (PE) backer rod should be used as a back-up material, to ensure the correct thickness and shape of sealant joint and to avoid three-sided adhesion.
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.
600 ml foil package: Open the application nozzle of the gun, insert the package in the gun and open the applicator side by removing the fastening clamp. Place the applicator nozzle on the opened end and screw on the cap.
Apply sealant in the joint by repeatedly and evenly pressing on gun trigger and smoothly dragging the nozzle along the joint. After application, the joint should be tooled and smoothed before skin formation.

Cleaning

Uncured sealant, tools and hands can be cleaned with PENOSIL Premium Cleaning Wipes.

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Cured sealant can be removed mechanically by using silicone remover for softening the sealant. Clean the surface with sponge and water.

Technical data

Properties	Unit	Value
Density	g/cm³	1,02
Skin forming time	minute	15–20
Curing rate	mm/24 h	approx. 3
Properties of cured sealant		
Movement of the joint, (ISO 11600)	%	± 25
Elastic recovery (ISO 7389)	%	>85
Resistance to flow, (ISO 7390)	mm	0
Loss of volume, (ISO 10563)	%	<10
Shore A hardness (ISO 868)		22
Service temperature	°C	from -40 to +150
Tensile properties		
2mm thickness (ISO 37)		
Elongation at break	%	500
Tensile strength	N/mm²	1,35
Modulus at 100% elongation	N/mm²	0,35
12x12x50 mm joint (ISO 8339)		
Elongation at break	%	225
Tensile strength	N/mm²	0,50
Modulus at 100% elongation	N/mm²	0,37

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

Colour

Transparent and white.

Package

310 ml cartridge, 12 pcs in a box.
600 ml foil package, 20 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 and protected from direct sunlight at between +5 °C and +30 °C.

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®). Due to the wide variety of possible substrates, we recommend a preliminary compatibility and adherence test.
Cannot be overpainted. Not intended for structural glazing.

Safety regulations

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).