

## TECHNICAL DATASHEET

# PENOSIL Premium Facade Hybrid 25LM

One-component, high elasticity and movement capability facade sealant. Based on hybrid-polymer and cures in the presence of moisture.

Completely weather and UV radiation resistant. Preserves excellent elasticity and adhesion in exterior and interior environment. The sealant is neutral, odourless and environmentally friendly. Easy to apply, even in adverse conditions and low temperatures.

- High movement capability ( $\pm 25\%$ ) and low modulus.
- Excellent adhesion to a wide range of porous and non-porous substrates.
- Non-corrosive to metals.
- Environmentally friendly, does not contain solvents, silicones or isocyanates.
- Cured sealant can be overpainted with water based paints.

### Field of applications

Sealing different joints of buildings, for example expansion and connection wall joints, window and door frame perimeter connections, joints of stairs, balconies, etc. Can be used for sealing penetrations (pipes, cables) and for ventilation works.

The product is suitable for many types of construction materials: concrete, brick, tile, ceramics, different metals, wood, glass, PVC, etc. Adheres even onto humid and damp surfaces.

### Technical classifications and certificates

Sealant for facade for interior and exterior application, intended for use in cold climate.

EN 15651-1:2012: Type F-INT-EXT-CC: CLASS 25LM

### Application conditions

Application temperature between  $+5\text{ }^{\circ}\text{C}$  and  $+40\text{ }^{\circ}\text{C}$ . The application temperature of the sealant should be  $+20\text{ }^{\circ}\text{C}$  -  $+25\text{ }^{\circ}\text{C}$ .

### 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.

**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, smooth the surface with a rubber silicone scraper and remove excess material.

### Cleaning

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

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
Type		hybrid polymer
Skin forming time	minute	50-70
Curing time	mm/24 h	3-4
Density	g/cm <sup>3</sup>	1,44
Resistance to flow, (ISO 7390)	mm	0
<b>Properties of cured sealant</b>		
Movement capability, (ISO 11600)	%	± 25
Elongation at break, (ISO 8339)	%	425
Tensile strength, (ISO 8339)	N/mm <sup>2</sup>	0,60
Modulus at 100% elongation, (ISO 8339)	N/mm <sup>2</sup>	0,32
Hardness (Shore A)		approx. 23
Service temperature	°C	-40 to +80

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

## Colour

White, grey, black, brown.

## Package

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 temperatures between +5 °C and +30 °C.

## Limitations

Do not use as a glazing sealant, 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. If necessary, prime surfaces to improve adhesion.

Paintability: Cured sealant can be overpainted with water based paints. Due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.

## 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).