

## TECHNICAL DATA SHEET

**PENOSIL PU-Sealant HM 868**

## Elastic PU-sealant

Moisture-curing polyurethane sealant. Cured product is with a high elasticity modulus, providing a versatile and durable solution for sealing connection and expansion joints, including those in pedestrian walkways for both industrial and building contexts. In addition to sealing, the product serves as a universal construction adhesive, allowing bonding of a wide range of building materials. Its insulation and sealing properties are not limited to indoor conditions, as it performs equally well in outdoor settings. Moreover, the cured sealant is resistant to UV, moisture, and weather, ensuring long-lasting and reliable performance.

**Main benefits**

- Permanently elastic
- Weatherproof
- Long processing time
- Traffic resistant
- High movement capability
- High elastic modulus
- Perfect for vertical joints
- Excellent adhesion to a wide range of substrates
- Can be painted with water-based paints

**Fields of application**

- Sealing joints in concrete floors, wagon buildings, shipbuilding, etc.
- Suitable for sealing and bonding in interior and exterior applications

**Colour**

Grey, white, black, brown.

**Package**

300 ml cartridge, 12 pcs in a box.  
600 ml foil package, 20 pcs in a box.

**Storage conditions and shelf life**

Guaranteed shelf life 18 months from the manufacturing date when stored in closed original package in a dry place and protected from direct sunlight at temperatures between +5 °C and +30 °C.

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## Adhering

- Concrete
- Brick
- Tile
- Ceramics
- Different metals
- Wood
- Glass
- PVC, etc.
- Adheres to 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 25HM
- Sealant used for pedestrian walkways for interior and exterior application, intended for use in cold climate  
EN 15651-4:2012: Type PW-EXT-INT-CC: Class 25HM

## Technical data

Properties	Value	Unit
Consistency	Paste	
Skin forming time	ca. 70	minutes
Curing Time	3	hours
Resistance to flow (ISO 7390)	≤3	mm
Application temperature	+5...+35	°C
Service temperature	-40...+80	°C
Shore A hardness (ISO 868)	ca. 40	
E-Modulus 100% (ISO 37)	ca. 0,3	N/mm <sup>2</sup>
Tensile strength (ISO 37)	ca. 1,4	N/mm <sup>2</sup>
Elongation at break (ISO 37)	>600	%
E-Modulus 100% (ISO 8339)	0,4	N/mm <sup>2</sup>
Elongation at break (ISO 8339)	>500	%
Density (EN-ISO 2811-1 or WGM203)	1,16 ± 0,02	g/ml

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.

## Application instructions

### Application conditions

Application temperature between +5 °C and +35 °C.

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## 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.

**Foil package:** open the end of the foil pack and place the pack inside the gun so that the dosing nozzle keeps covering its open portion. Place the dosing nozzle on the open end and screw on the cap to close the tube. Cut the nozzle to create a suitable opening for dosing sealant.

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.

If necessary, the adjacent surfaces of the joint should be protected to avoid staining. Usually, masking tape is being used for this. Protective masking tapes should be removed before the sealant's skin is formed.

In wider and movable joints, 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.

Ensure adequate ventilation in all joint locations. During the curing process, make sure that no impurities can settle on the surface and that the joint surface is not affected by mechanical load.

## Cleaning

Uncured sealant can be cleaned with solvents like white spirit, acetone or with PENOSIL Cleaning Wipes.

Cured sealant can be removed mechanically. If needed silicone remover should be used.

## **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®).
- We don't recommend this product to be used for natural stone sealing.
- 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.

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