

TECHNICAL DATA SHEET

PENOSIL Floor Joint Hybrid 25HM

Hybrid floor joint sealant

One-component, adhesive and sealant based on hybrid polymer. It cures in the presence of moisture and is suitable for indoor and outdoor applications. Multipurpose sealing and bonding in the building sector, even onto humid and damp surfaces.

Main benefits

- High movement capability
- High modulus
- High wear resistance
- UV- and waterproof
- Adheres to damp surfaces
- Great adhesion with wide variety of substrates
- Low odor
- Solvent, silicone and isocyanate free

Fields of application

- Sealing trafficable interior flooring joints such as concrete expansion and perimeter joints.
- Suitable to be used instead of skirting.
- Sealing and bonding interior and exterior high movement connection joints like joints between walls and floors, stairs, balconies, window and door frames.

**Colour**

White, black, grey, brown, terracota and beige.

Package

600 ml foil package, 20 pcs in a box.

Storage conditions and shelf life

Guaranteed shelf life 12 months from the manufacturing date when stored in a closed original package in a dry place and protected from direct sunlight at temperatures between +5 °C and +25 °C.

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Adhering

- Concrete
- Brick
- Tile
- Wood
- Different metals
- 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 for pedestrian walkways for interior application
EN 15651-1:2012: Type PW-INT: Class 25HM
- French VOC emission class A+

Technical data

Properties	Value	Unit
Basis	Hybrid	
Density (DIN 53 479-B)	1.37	g/ml
Tack free time	10	min
Skin forming time	30	min
Curing Rate	2 ... 3	mm/24h
Loss of volume (ISO10563)	<5	%
Service temperature	-40 ... +90	°C
Movement capability (ISO 11600)	±25	%
Elastic recovery (ISO 7389)	>80	%
Shore A hardness (ISO 868)	40	
E-Modulus 100% (ISO 37)	0.65	N/mm ²
Tensile strength (ISO 37)	2	N/mm ²
Elongation at break (ISO 37)	600	%
E-Modulus 100% (ISO 8339)	0.9	N/mm ²
Tensile strength (ISO 8339)	1.3	N/mm ²
Elongation at break (ISO 8339)	>200	%

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

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Application instructions

Application conditions

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

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

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 special 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®).
- Do not use as a glazing sealant.
- 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).

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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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