

## TECHNICAL DATASHEET

# PENOSIL Premium Floor Joint Hybrid 25HM

One-component, high modulus hybrid sealant for sealing concrete floors. The sealant cures in the presence of atmospheric moisture to form a durable and flexible rubber. PENOSIL Premium Floor Joint Hybrid 25HM adheres to a variety of porous and non-porous substrates such as concrete, fiber-concrete, bricks, ceramic tiles, different metals, anodized aluminium, wood, melamine, PVC, etc. Adheres even onto humid and damp surfaces.

- High movement capability ( $\pm 25\%$ ) and high modulus hybrid sealant.
- Excellent adhesion to a wide range of porous and non-porous substrates.
- Almost no shrinkage.
- Permanently elastic.
- Does not contain solvents, silicones or isocyanates.
- Good resistance to UV radiation and moisture.
- Low odour.
- Cured sealant can be overpainted with water based paints.

### Field of applications

PENOSIL Premium Floor Joint Hybrid 25HM is specially developed for sealing shrinking control joints of indoor concrete floors. The sealant can be also used to seal joints of other floor types, e.g. ceramic tiles, hardwood floors, laminated floors. It is also suitable for sealing expansion and connection wall joints in buildings, window and door frame perimeter connections, joints of stairs, balconies, etc.

### 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 25HM

Sealant used for pedestrian walkways for interior application.  
EN 15651-4:2012: Type PW-INT: CLASS 25HM

### Application conditions

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

### Application instructions

The main concrete drying shrinkage has to be completed prior sealing the shrinking control joints. The surfaces must be clean from dust, loose particles and oil. If needed, the joints should be primed with a suitable primer before sealing. After priming, backer rod can be installed to the joint. The purpose of the backer rod is to ensure correct joint thickness, avoid three-sided adhesion and give the sealant a correct form. The diameter of the Backer Rod should be approximately 25% larger than the joint width. The sealant joint width:depth ratio is in the range from 1:1 to 3:1. The ideal joint has a 2:1 width:depth ratio.

**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

| Property                           | Unit              | Value      |
|------------------------------------|-------------------|------------|
| Skin forming time                  | minutes           | 20-45      |
| Density                            | g/ml              | 1,36       |
| Curing rate                        | mm/24 h           | 2-3        |
| Resistance to flow, (ISO 7390)     | mm                | 0          |
| <b>Properties of cured sealant</b> |                   |            |
| Temperature resistance             | °C                | -40 to +90 |
| Movement capability                | %                 | ±25        |
| Hardness (Shore A)                 |                   | approx. 35 |
| <b>Tensile properties</b>          |                   |            |
| <b>2 mm thickness- ISO 37</b>      |                   |            |
| Modulus at 100% elongation         | N/mm <sup>2</sup> | 0,6        |
| Tensile strength                   | N/mm <sup>2</sup> | 3,3        |
| Elongation at break                | %                 | 950        |
| <b>12x12x50 mm joint- ISO 8339</b> |                   |            |
| Modulus at 100% elongation         | N/mm <sup>2</sup> | 0,6        |
| Tensile strength                   | N/mm <sup>2</sup> | 1,5        |
| Elongation at break                | %                 | >550       |

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

## Colour

Grey, white, 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 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 test.

Not suitable to use on natural stones (e.g. marbel, granite, etc.), as it can cause staining.

Paintability: Sealant can be painted 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).