

TECHNICAL DATA SHEET

PENOSIL Self-Levelling Hybrid 716

One-part elastic flowable and self-levelling sealant, based on innovative hybrid technology, that cures with the atmospheric moisture producing a flexible and resistant rubber for sealing floor joints.

Main benefits

- Flowable and self-levelling, easy to apply. It does not require smoothing.
- Silicone, isocyanates and solvent free. Non-corrosive.
- Fast curing with nearly no shrinkage.
- High hardness.
- High modulus and excellent performance mechanical properties.
- Excellent adhesion to a wide range of materials without priming, even onto humid and damp surfaces.
- Excellent UV-, ozone, weather and ageing resistance.
- Good chemical resistance to saline solutions, hydrocarbons, common detergents and mineral oils.
- Permits painting with water based paints and many other systems (to be tested).

Fields of application

- For horizontal expansion joints which require flexibility and abrasion resistance, for both indoor and outdoor applications.
- For sealing ground joints in public locations, parking lots, workshops, warehouses, pedestrian streets, bridges, joints of bricks, floor tiles, etc.
- Filling and sealing concrete floor joints.
- Sealing and repairing joints in concrete floor-slabs.
- Sealing very narrow and difficult to reach horizontal joints.

Adhering

- Concrete
- Brick
- Plaster
- Tiles
- Wood
- Ceramics
- Metals
- Most plastics

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.

Being a self-levelling product does not need smoothing after application.

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

Clean the uncured adhesive with solvent such as white spirit, acetone or use PENOSIL Cleaning Wipes. Cured adhesive can only be removed mechanically. If needed silicone remover should be used.

Technical data

Properties	Value	Unit
Basis	Hybrid	
Consistency	Thixotropic paste	
Density (DIN 53 479-B)	1,38	g/ml
Tack free time	10...15	min
Skin forming time	15...20	min
Curing rate	3	mm/24h
Application temperature	+5...+40	°C
Service temperature	-30...+80	°C
Shore A hardness (ISO 868)	55	
E-Modulus 100% (ISO 37)	1,00	N/mm ²
Tensile strength (ISO 37)	1,10	N/mm ²
Elongation at break (ISO 37)	125	%

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.

Technical classification and certificates

- French VOC-emission class A+

Colour

Grey.

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 closed original package in a dry place at temperatures between +5 °C and +25 °C.

Limitations

- Joints must be protected from traffic until complete curing.
- 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. If necessary, prime surfaces to improve adhesion.
- It is compatible with water-based paints. Due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.

- Not intended for structural glazing bonding.
- Not recommended for the construction or sealing of aquariums, for mirror mounting or in direct contact with food.
- 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.