PENOSIL

TECHNICAL DATA SHEET

PENOSIL Aqua Barrier 708

Roof hybrid coating



PENOSIL Aqua Barrier 708 is a highly elastic and highly resistant membrane, based on MS hybrid technology and designed for the waterproofing and repair of roofs, terraces, balconies and for the reduction of cracks. It is a ready-to-use product that cures in the presence of moisture. After curing completely is a watertight membrane and an effective, simple and long-lasting solution against water leaks and humidity.

Main benefits

- Crack-bridging ability
- Permeable to water vapour
- Nearly no shrinkage
- High elasticity
- Air- and watertight, good UV protection
- Easy and convenient application on horizontal and vertical surfaces
- Excellent adhesion to wide range of substrates
- Non-corrosive to metals
- Can be applied on damp surfaces
- Over paintable with water-based paints
- Does not contain solvents, silicones or isocyanates
- Practically odourless

Fields of application

- For watertight repair works on flat and pitched roofs and balconies.
- Repairing, protecting and sealing of roof flashings, rain gutters and different penetrations through roofs, like chimneys, ventilation outlets, pipes, etc.
- Waterproofing of planters and tanks.
- On terraces, tiles can be laid directly onto the first coat.

Colour

Grey, white, black, red and terracotta.

Package

1 kg metal can, 6 pcs in a box.
4 kg metal can with handle, 4 pcs in a box.
14 kg metal can with handle.

Storage conditions and shelf life

Guaranteed shelf life 18 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 +30 °C.

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Adhering

- PU foam (fully cured)
- PVC
- Metal
- Wood
- Masonry
- Concrete
- Ceramic tiles
- EPDM
- Bitumen

Technical classifications and certificates

- French VOC-emission class A+

Technical data

Properties	Value	Unit
Basis	Hybrid	
Consistency	Paste	
Sd value (2 mm thickness)	4,5	m
Tack free time	10...15	minutes
Skin forming time	15...20	minutes
Curing Rate	2	mm/24h
Application temperature	+5...+40	°C
Service temperature	-40...+90	°C
Shore A hardness (ISO 868)	ca. 43	
E-Modulus 100% (ISO 37)	1,00	N/mm²
Tensile strength (ISO 37)	1,60	N/mm²
Elongation at break (ISO 37)	>300	%
Density (EN-ISO 2811-1)	1,42	g/ml
VOC content (SCAQMD rule 1168)	ca. 26	g/l

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

Application instructions

Application conditions

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

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Surface preparation

The surfaces must be dry or damp, 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

Using a caulking gun. Apply the liquid membrane on the joint with a caulking gun and smooth with a putty knife or flat brush so the seamless film is at least 1 mm thick.
If needed, the product can be applied in 2 layers. The first layer will be applied evenly on the treated surface, making sure that there is no air bubbls. The curing time before the second layer needs to be 6-8 hours. Apply the second layer in the opposite direction to the first.
Using a pneumatic spray gun. Liquid Hybrid Membrane can be applied by using a pneumatic spray gun, e.g. Cox Jetflow 3 600S. Adjusting the nozzle gives options to apply either as a bead or sprayed as a coating. For spraying, the nozzle is more open and less product is applied. For optimal use, the air pressure should be 4-6 bar and nozzle should be around 75% open. After spraying, if needed, smooth the membrane with a flat brush and make sure the minimum layer thickness (1 mm) is applied.
To ensure air- and weather tightness, the membrane needs to be applied at least 10 mm on the window/door frame, over the cured foam and at least 10 mm on the wall structure (both for caulking and pneumatic spray gun). To avoid mastic splashes on the frame, protect window and door frames with masking tape. The masking tapes should be removed right after application before the product starts curing. If needed, the product should be applied in 2 layers, to ensure seamless and airtight connection. The curing time before the second layer needs to be 12-24 hours. The final curing time depends on the layer thickness and relative humidity and temperature of the environment.
To achieve the expected results, the building engineering physics requirements for the whole solution must be taken into account, for example the need for a vapor tight layer in the warm layer of the structure.

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®).
- Not recommended this product to be used for natural stone sealing.
- Avoid using sharp objects on the membrane.
- Not recommended for trafficed surfaces.
- 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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