

TECHNICAL DATA SHEET

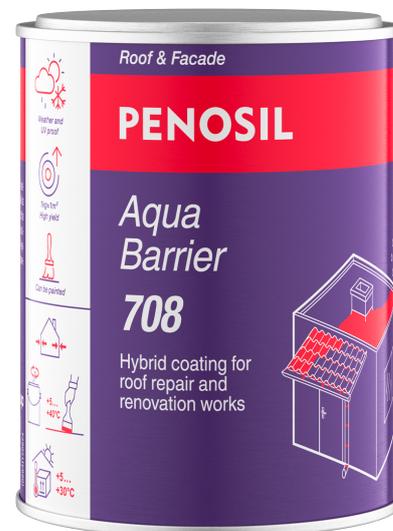
PENOSIL Aqua Barrier 708

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

- Ensures excellent adhesion.
- For all surfaces, even when damp.
- Can be used on both horizontal and vertical surfaces.
- Fast curing.
- High weather resistance.
- It performs in all weathers: in hot, cold or wet weather. Will not freeze.
- Good UV resistance.
- Provides total waterproofing.
- Rain-ready after application.
- Exceptional elasticity.
- Strong mechanical properties.
- Does not shrink when curing.
- Crack bridging ability.
- Does not contain solvents, silicones or isocyanates.
- Environmentally friendly and practically odourless.
- Easy to apply.
- Paintable.

**Colour**

Grey, white, black, red and terracotta

Package

1 kg metal can, 6 u. in a box
 4 kg metal can with handle, 4 u. 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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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, after applying the first layer, it can be used to glue the ceramics.

Adhering

- PU foam
- Metal
- Masonry
- Concrete
- Ceramic tiles
- EPDM
- Most plastics

Technical classifications and certificates

- French VOC-emission class A+

Technical data

Properties	Value	Unit
Basis	Hybrid	
Consistency	Paste	
Sd value	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/mm ²
Tensile strength (ISO 37)	1,60	N/mm ²
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.

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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. Surfaces can be damp but not wet and it should not be raining during application.

Application method

The product is ready to be used and can be applied with a paintbrush or a spatula.

If needed, the product should be applied in 2 layers. The first layer will be applied evenly on the treated surface, making sure that there is no air bubble.

The curing time before the second layer needs to be 6-8 hours.

Apply the second layer in the opposite direction to the first.

The final curing time depends on the layer thickness, relative humidity and temperature of the environment.

Consumption of the product after 1-layer coating is approximately 1 kg/m²/mm thickness.

Consumption of the product after 2-layer coating is 1,5-3 kg/m² (depending on the surface porosity).

Consumption lower than recommended could cause premature degradation of the membrane.

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®).
- Avoid using sharp objects on the membrane.
- Not recommended for traffic 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.
- Cured membrane PENOSIL Aqua Barrier 708 can be overpainted with water-based paints. Due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- Please observe the expiration date!

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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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