

TECHNICAL DATA SHEET

PENOSIL AquaBrake Fiber 640

Fiber-reinforced ready-to-use waterproofing compound for waterproofing the substrate under the floors and walls of wet rooms. After drying forms an elastic water-tight layer. The mastic is water-based and does not emit odour or harmful compounds during drying.

Main benefits

- Crack bridging ability.
- Suitable for heated floors.
- Color change indicates drying.
- Easy to use.

Fields of application

- The mastic is used to form a hydroisolation layer in bathrooms, shower rooms, saunas and other sanitary premises before tiling.

Adhering

- Concrete
- Brick
- Plastered surfaces
- Gypsum board
- Construction boards

Application instructions

Application conditions

During application air temperature, substrate temperature and mastic temperature must be between +10 °C and +25 °C and maximum relative humidity 80%. The substrates should be fully cured, dry and smooth. Mix the mastic carefully before use.

The suitable tools for application are paint roller or -brush. For the mesh tape application of the room corners and around floor traps and penetrations it is convenient to use putty trowel. The waterproofing compound should be mixed before use.

The minimum coverage is 1,1 kg/m² (covering in 2 layers). Cured mastic does not form a solid, durable coating and should be coated with finishing material (e.g. tiles).

Surface preparation

The surfaces must be dry, clean from dust, loose particles and oil. Concrete and surfaces levelled with cement should be primed with a suitable primer, for example with PENOSIL BetPrimer 603 in ratio 1:5 with water.

Application method

Mix the product before using. Spread PENOSIL AquaBrake Fiber 640 on a finally dried substrate, using a paintbrush, cleaning brush or a paint roll, applying two coatings, the second coating crosswise with the first coating.

Walls: First, cover the joints and corners, connection points, screw heads in the wall substrate or construction boards and around wall penetrations with PENOSIL AquaBrake Fiber 640. In the corners, attach at least 20 cm wide mesh tape such as PENOSIL AquaBrake Fabric on a fresh waterproofing compound (in the wall and floor connection corners and the room inner corners the mesh tape should be applied to substrates in even portions), and on joints at least 10 cm wide mesh tape. Fix the mesh tape on the substrate. For penetrations and openings on the wall, mesh tape with a diameter of at least 3 times

bigger than the opening should be used. Cut a hole in the mesh tape that would be 4-5 mm smaller than the tube diameter on the wall, so that after application the edge of the fabric would cover the tube by 3-5 mm. Apply the mesh tape on a fresh waterproofing compound and fix it to the surface. Then cover the entire mesh tape with a mastic. Make sure that the mesh tape has immersed in the waterproofing compound completely.

Finally use a paint roller to apply PENOSIL AquaBrake Fiber 640 over the entire waterproofed surface. When the waterproofing compound has dried in around 2 h and changed in colour, you can start to apply the next coating (crosswise to the first layer).

Floors: First, cover the joints and corners, connection points, screw heads in the floor substrate and around floor traps with PENOSIL AquaBrake Fiber 640. In the corners, attach at least 20 cm wide mesh tape such as PENOSIL AquaBrake Fabric on a fresh waterproofing compound (in the wall and floor connection corners and the room inner corners the mesh tape should be applied to substrates in even portions), and on joints at least 10 cm wide mesh tape. Fix the mesh tape on the substrate. For hydroisolation works connected with floor trap installation, the trap manufacturer's instructions must be followed. For floor penetrations, mesh tape with a diameter of at least 3 times bigger than the opening should be used. Cut a hole in the mesh tape that would be 4-5 mm smaller than the tube diameter on the floor, so that after application the edge of the fabric would cover the tube by 3-5 mm. Apply the mesh tape on a fresh waterproofing compound and fix it to the surface. Then cover the entire mesh tape with a mastic. Make sure that the mesh tape has immersed in the waterproofing compound completely.

Finally use a paint roller to apply PENOSIL AquaBrake Fiber 640 over the entire waterproofed surface. When the waterproofing compound has dried in around 2 h and changed in colour, you can start to apply the next coating (crosswise to the first layer).

The final drying time of the coatings is 6-12 hours, depending on the temperature and humidity. Check that the dried waterproofing compound contains no holes. The quality of waterproofing is verified before starting with the tiling works. The thickness of the dried waterproofing compound should be approx. 0,4 mm on walls, 0,5 mm on the floor and 1,5 mm around traps. After final drying you can start installing the tiling. This product is not UV resistant and should be protected from direct sunlight before applying the covering layer.

Cleaning

Clean the uncured product with water or use PENOSIL Cleaning Wipes. Cured product should be removed mechanically.

Technical data

Properties	Value	Unit
Final curing	6-12	h
Density	1,35	g/ml
Sd value	42 / 1 mm layer	m
pH	9,6	
Crack bridging ability	0,75	mm
Consumption	1,1-1,3	kg/m ²

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

- One component liquid-applied water impermeable product used beneath ceramic tiling
EN 14891 :2012

Colour

Light blue

Package

1 L plastic container 1,3 kg
5 L plastic container 7 kg

10 L plastic container 14 kg

18 L plastic container 20 kg

Storage conditions and shelf life

Guaranteed storage time 36 months starting from the date of manufacture if stored in a closed original package in a dry place between +5 °C and +30 °C. Avoid freezing.

Limitations

- Not recommended on surfaces, which are continuously underwater (such as swimming pools).
- Not recommended on surfaces where the temperature may exceed +80 °C (e.g. the steam room walls of saunas).
- There is no adhesion to PE, PP, PTFE (Teflon®).
- Due to the wide variety of possible substrates, we recommend a preliminary compatibility test.

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.