

## TECHNICAL DATA SHEET

# PENOSIL Premium AquaBrake Fiber

PENOSIL Premium AquaBrake Fiber is a fiber-reinforced ready-to-use waterproofing compound for waterproofing the substrate under the floors and walls of wet rooms. It is classified as dispersion liquid-applied water impermeable product DM (according to EN 14891:2012). After curing, it forms a watertight layer, which bridges cracks. When the insulation layer has dried, tiles can be installed on the layer, using a tiling mixture. The product is water-based, doesn't contain solvents and indicates curing with a colour change. Easy and convenient application.

### Applications

The mastic is used as a hydroinsulation in bathrooms, shower rooms, saunas and other sanitary premises before tiling. Suitable substrates are concrete, brick and plaster surface, gypsum boards and building boards suitable for wet premises. It is not recommended to use on surfaces, which are continuously underwater (such as swimming pools) nor on surfaces where the temperature may exceed +80 °C (e.g. the steam room walls of saunas).

### Application conditions

During application, it should be ensured that the temperature of air, substrates and waterproofing compound are between +10° C and +25° C and relative humidity wouldn't exceed 80%. The substrates should be fully cured, dry and smooth.

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/m<sup>2</sup> (covering in 2 layers). Cured mastic does not form a solid, durable coating and should be coated with finishing material (e.g. tiles).

### Application instructions

Clean the substrate from all dust, loose parts, grease and anything else that could impede the adhesion of the waterproofing compound. Concrete and surfaces levelled with cement should be primed with a suitable primer, for example with PENOSIL Premium BetPrimer in ratio 1:5 with water.

Spread PENOSIL Premium AquaBrake Fiber 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 Premium AquaBrake Fiber. In the corners, attach at least 20 cm wide mesh tape such as PENOSIL Premium 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 Premium AquaBrake Fiber 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 Premium AquaBrake Fiber. In the corners, attach at least 20 cm wide mesh tape such as PENOSIL Premium 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 Premium AquaBrake Fiber 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 tools and working clothes immediately with water. Skin must be washed with water and soap. Dried product can be removed only mechanically.

## Technical data

Characteristic	Unit	Value
Curing rate	hour	6-12
Density	g/cm <sup>3</sup>	1,35
pH		9,6
Crack bridging ability	mm	0,75

## Colour

Light blue.

## Package

1 L plastic container 1,3 kg  
5 L plastic container 7 kg  
15 L plastic container 14 kg  
25 L plastic container 20 kg

## Storage

Guaranteed shelf life of 36 months when stored in closed original package in dry conditions between temperatures of +5°C to +30°C. The product must be protected from freezing. Mix before use.

# PENOSIL

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## Safety requirements

Keep out of the reach of children. Avoid contact with skin. Wear suitable safety gloves.  
Detailed safety information is available on safety data sheet (SDS).