Technical Datasheet

AQUAMAT-F

Damp-proof course

Description

AQUAMAT-F is a ready-to-use, water-based, siliceous solution with hydrophobic siliceous compounds. When injected into holes drilled in damp walls, the compounds it contains react with the existing lime and form non-soluble compounds (hydrous silicic monocalcium), blocking the capillary water absorption while creating a water-repellent barrier (hydrophobicity).
AQUAMAT-F has no corrosive effects on the steel in reinforced concrete.
AQUAMAT-F is not suitable for application to surfaces of exposed concrete, brick walls or plaster to be coated or painted.

Fields of application

AQUAMAT-F is mainly used against rising damp. It creates a horizontal barrier against rising damp, at the base of walls.
In case there is hydrostatic pressure, the use of AQUAMAT is required.

Technical data

Color:	transparent
pH:	12.7
Density:	1.36 kg/l

Directions for use

1. Without pressure
Application of AQUAMAT-F is carried out via pre-drilled holes at the base of walls. 30 mm diameter holes are drilled lengthwise at the base of the wall, spaced at a distance of 15-20 cm, at a 30°-45° angle to the ground. Drilling should reach a depth of up to 5 cm less than the wall thickness. The holes are usually opened from the outside. They may also be opened in two levels (one higher - one lower).
In this case, the distance from hole to hole depends on the absorbency of the wall, but 15-20 cm is generally recommended.
Waterproofing both sides of the wall with AQUAMAT cementitious slurry in the area of the boreholes prevents AQUAMAT-F from leaking out of the wall.
After drilling and cleaning the holes, AQUAMAT-F (not diluted) is poured into the wall through them using a funnel, repeating the process up to the point of saturation.
The holes are then filled and patched with a cementitious repair mortar like DUROCRET or RAPICRET, at least 24 hours after application.

2. With pressure
This method is suitable for walls greatly or totally soaked with water. The holes should have a diameter of 12-18 mm and should be opened horizontally or at a 30° angle to the ground, spaced at a distance of 10-20 cm. In case of walls with low absorbency, holes should be drilled in two levels. In case of stone walls with very low absorbency, holes should be opened in the joints, but if the stones are absorbent, the holes should be opened inside them.
AQUAMAT-F is injected under pressure, using the appropriate equipment. The application is considered complete when AQUAMAT-F starts to leak from the wall surface, ensuring that the area around the holes has been saturated with the material. 24 hours after the application of AQUAMAT-F, holes are filled and patched with a cementitious repair mortar like DUROCRET or RAPICRET.

Consumption

Depends on the absorbency of the wall.
Typical consumption: approximately 18 kg per m^2 of the cross-sectional area of masonry, for walls of medium absorbency.

Packaging

6 kg and 25 kg plastic containers.

Shelf life – Storage

12 months from production date if stored in original, unopened packaging at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.

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Remarks

- Due to siliceous content, AQUAMAT-F is classified as corrosive.
- Please consult the safety instructions written on the packaging before use.

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