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χρόνια

σεβασμό στον μάστορα

δομικά υλικά

construction materials

Technical Specifications

Date of issue: 10/11/2015

Version Number: 2nd

Atlproof

Brushable sealing slurry



Description-Properties

Brushable cementitious sealing slurry, suitable for all building surfaces, indoor or outdoor, vertical or horizontal. 100% waterproof. Used for sealing walls, floors, roofs, basements, tanks, shafts or water pools, generally structures made of concrete, cement screed, plaster, brickwork, cement blocks, porous concrete or other material requiring protection against partial, seasonal or continuous moisture. Allows aggressive adhesion even on damp surfaces; no priming is necessary before application. Prevents corrosion to reinforced concrete. It is highly resistant to positive hydrostatic pressure (for preventive external application before earthfilling) as well as to negative hydrostatic pressure (up to 7atm as per DIN 1048), for internal preventive application or repair. Atlproof allows surface transpiration. It is also recommended for potable water tank coating provided that the necessary hygiene standards are met (i.e. water chlorination, protection against insects etc.). It can be also applied to surfaces that come in contact with food, in accordance with requirement W347, ISO 8467. It is resistant to adverse weather conditions, extremely hot weather or freezing, making it ideal for use on north facing walls or sloping concrete rooftops (before roof tiles are laid).

Scope of application

Can be applied to all building surfaces, indoor or outdoor, vertical or horizontal, made from concrete, plaster, brickwork, porous concrete, cement screed, cement blocks and any other constructed surface that requires protection against moisture.

Surface preparation

Surfaces must be firm and clean, free from loose materials, form release agents, salts etc. Any leakage must be sealed using ultra quick setting repair cement Atlatop quick fix or using the same product (Atlproof) made in thicker mix. Any concrete pockets, holes or cracks must be filled and sealed using cement mortar reinforced by Fiber Reinforced Construction Resin & Mortar Elastifying Agent Atlplus fiber flex. Surfaces must be thoroughly wetted prior to application.

Mixture preparation and thinning

To make ready for use, Atlproof only requires mixing with water. Add 25 kg. (1 bag) of Atlproof to 6 - 7 litres of clear water while continuously stirring. Continue stirring employing power drill at low speed until a uniform viscous mix is obtained. It must be so thick that material is not dripping from the application tool. Ready paste can be used within 45 minutes. For surfaces presenting capillary cracks induced by natural or mechanical vibration, or where such cracks may potentially appear, we propose that Atlproof is mixed with Mortar Latex Admixture Atlplus latex to increase the product's elasticity, surface resistance and adhesion to a proportion of 1 part emulsion to 1-2 parts water by volume. Atlplus latex is not recommended where the mortar must be applied on potable water tanks.

Application

Atlproof must be applied on 2-4 equally thick coats (1 mm) in cross pattern between them using emulsion brush, roller, lime brush or spatula. Successive coats must be applied while the underlying coat is still tacky (approximately for 2 hours). If a new coat must be applied on a dry substrate, wetting must be repeated. The finish-coat must not be subjected to high temperature or freezing for the next 48 hours. Do not apply the product under extremely hot or freezing weather conditions.

Colors

Available in white and grey.



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Atlaproof

Consumption

1,3 Kg./m² for a 1mm thick layer. Consumption rate depends on the number of coats, proper preparation and the type of application surface.

SERVICE CONDITIONS	MINIMUM CONSUMPTION	MINIMUM THICKNESS
Humidity	2,0 Kg./m ²	Approximately 1,5 mm
Non pressurized water	3,0 Kg./m ²	Approximately 2,0 mm
Pressurized water	3,5 - 4,0 Kg./m ²	Approximately 2,5 mm

Storage

At least 12 months after date of production provided that the product is stored in closed bags and kept in a dry area protected against moisture.

Adhesion strength: $\geq 1.0 \text{ N/mm}^2$ (EN 1542)

Elasticity (DIN 53504): 37%

Compressive strength after 28 days: $17.50 \pm 2.50 \text{ N/mm}^2$
(EN 12190)

Flexural strength after 28 days: $7.85 \pm 1.50 \text{ N/mm}^2$
(EN 12190)

Permeability to CO₂: 140 m
(EN 1062-6)

Capillary absorption and permeability to water: $0.051 \text{ kg/m}^2 \cdot \text{h} \cdot 0.5$
(EN 1062-3)

Water vapor permeability: $S_d = 0.5\text{m}$
(EN ISO 7782-2, Class I: $S_d < 5\text{m}$)

Water penetration under positive hydrostatic pressure: no penetration
(EN 12390-8, 3 days at 5 bar)

Water penetration under negative hydrostatic pressure: no penetration
(at 1.5 bar)

* At $21 \pm 2^\circ\text{C}$ and $60 \pm 10\% \text{ RH}$.

Durability against:

- Rain: after approx. 4 h
- Walking: after approx. 1 day
- Tile fixing: after approx. 1 day
- Water under pressure: after approx. 7 days

Packaging

25 kg.

5 kg.

Safety information

Read the label before use. For detailed instructions - precautions, consult the Product Safety Data Sheet. Poison Information Centre: (+30) 210 77 93 777.

The technical information and instructions supplied in this data sheet are based on our knowledge and experience. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the application are beyond the control of our company. Therefore the user is responsible for confirming that the chosen product is suitable for the envisaged application. Our company designs and produces products intended to satisfy your needs. Please do not hesitate to contact us, if you encounter any technical problem.