

## Waterproofing Systems / Capillary Waterproofing Systems

# AQUAFIX® PRO

Crystallized Waterproofing Material

## DESCRIPTION

Cement-based, **crystallized** waterproofing material specifically developed for **waterproofing of foundations** that can be applied in hydrostatic pressure directions and becomes reactive with water and moisture. It reacts with water, moisture and free lime in the concrete and penetrates deeply into the concrete thanks to its formula consisting of cement, chemicals and specially selected fine aggregates. It creates insoluble minerals in capillary spaces and pores.

## APPLICATION AREAS

It is used for structural waterproofing in concrete under foundation.

## TECHNICAL PROPERTIES

|                     |                          |
|---------------------|--------------------------|
| Appearance          | Grey colored fine powder |
| Powder Density      | ~ 1.10 kg/L              |
| Service Temperature | Between -20°C and +70°C  |

## ADVANTAGES

- Applied from the direction of both **positive** and **negative** hydrostatic pressure.
  - Integrates with the surface and penetrates in depth into the concrete. Minerals formed after its reaction fill the capillary spaces to insulate the concrete both from the surface and in volume.
  - Since it is reactive, it continues to react with water molecules throughout the life of the reinforced concrete and provides waterproofing during the service life of the structure.
  - Sub-foundation sprinkle can be done in any weather condition where concrete can be poured.
- However, if there is a puddle on lean concrete in rainy weather, concrete pouring and dry sprinkling should be done at the same time.
- Since it fills the capillary gaps in the concrete and the cracks that may occur up to 0.5 mm in the concrete, it will prevent the penetration of water and moisture into the concrete.
  - Allows the concrete to breath as it is air and water vapor permeable. Prevents moisture and odor.
  - Is not affected from UV and oxidation.
  - Saves time and labor, economical.
  - Resistant to freeze – thaw cycle.

## CONSUMPTION

Under foundations (dry sprinkle) 2 – 3 kg/m<sup>2</sup>

## PACKAGING

20 kg kraft bags

## APPLICATION

### PREPARATION OF THE SURFACE

There is no need to make any surface preparation for dry sprinkle application.

### APPLICATION

**Dry Sprinkle:** For the right amount of consumption, create 2 m x 3 m (6 m<sup>2</sup>) slabs after the molds are fixed on the lean concrete and the raft reinforcements are connected. Place the bags of 20 kg of AQUAFIX PRO into the slabs and sprinkle the content of each bag into the slabs over the iron reinforcement with a consumption of 2 – 3 kg/m<sup>2</sup>, just before the raft foundation concrete is poured. It is applied as dry sprinkle as the existing water molecules in the unset concrete are sufficient for AQUAFIX PRO to react.

### CAUTION

- Avoid application in frozen areas where there is a risk of freezing within 24 hours or in areas open to direct sun and wind.
- The formation of minerals in the concrete and the depth of their penetration into the concrete depend on the quality of the concrete, the capillary void ratio in the concrete and the absorbency of the surface. The better the curing with water, the better the material will penetrate into the concrete. Do not use any other curing liquid other than water.

### SHELF LIFE

Expires in 12 months. Store unopened packages in a dry environment, stack maximum 10 on a pallet.

### HEALTH AND SAFETY

As with all chemical products, avoid contact with food, skin, eyes and mouth during usage and storage. During the application, use work clothes, protective gloves, goggles and mask in accordance with the occupational and worker health regulations. Consult a doctor if accidentally swallowed. In case of contact with skin, rinse with water. Keep out of reach of children.

The application instructions and technical values given for the products have been obtained in accordance with our tests and experiences in accordance with international standards at 23±2°C temperature and 50±5% relative humidity conditions. These values may vary depending on ambient conditions. High temperatures shorten the times, low temperatures lengthen them. Before starting the application, the user should test whether the product is suitable for the application and purpose. FIXA Construction Chemicals Ltd. is not responsible. This Technical Data Sheet remains valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that the new version is published. It is the user's responsibility to check that the document is up-to-date. Please contact our sales department for more information.