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## TECHNICAL DATA SHEET

### Barofob<sup>®</sup>

Waterproofing and plasticizing admixture for concrete, cement and cement-lime mortars.

#### Fields of applications

The addition of Barofob<sup>®</sup> in the mixing water used for the preparation of mortars and concrete hinders the penetration of water and moisture. In this way, the impermeability of the construction body to water, the protection of concrete reinforcements against oxidation as well the protection of concrete from frost is ensured. This is achieved as Barofob<sup>®</sup> decomposes during the hardening stage and forms highly durable and totally water-insoluble salts that block pores, cavities and capillaries.

#### Properties

As Barofob<sup>®</sup> is easily dissolved in water; its ingredients are thoroughly distributed in the concrete body. Thus, waterproofing is uniform and the product is used to its fullest degree. Being a wetting and plasticizing agent, Barofob<sup>®</sup> decreases the quantity of mixing water required up to 20%, enhances the workability of the slurries and the mechanical properties of concrete (particularly against flexural stresses). A typical property of the product is that during the first stages of concrete setting, it does not show hydrophobic characteristics, but rather a hydrophilic behavior. In this way, Barofob<sup>®</sup> contributes to natural and uniform hardening of the concrete body, which continues to absorb and retain water (In contrast to most waterproofing products that display water-repelling behavior from the first few days of their application. It has been established that poor wetting of concrete results in turn to poor hardening and thus to impaired mechanical properties). It does not influence the

hydration reaction of cement, as well as setting and hardening times provided that its dosage does not exceed 2%.

#### Technical characteristics

Density (25 °C): 1.17 g/cm<sup>3</sup>

PH: 9,5-11,5

It does not contain chloride ions or other corrosive agents.

Water reduction: up to 20%

#### Instructions for use

Add Barofob<sup>®</sup> to the slurry and mix for 5 - 10 minutes to achieve uniform dispersal.

#### Dosage

For concrete: 0.5 - 1 % by weight of cement -for cement mortars:

1 - 2 % by weight of cement mortars

#### Specification

It complies with EN 934-2

#### Packing

5kg, 17kg plastic containers, 200-kg drums, 1000kg

#### Storage stability

The product is stable for 2 years when kept unopened in its container, protected from frost and direct sunlight