



Product Overview

CLASS 4 is a pre-mixed additive for mortar, plaster, screed, and concrete, specifically designed for cold climates. It accelerates the setting process of mortar and enhances its strength by expediting the reaction between water and cement during the initial setting phase.



Application Domains

- On concrete surfaces where swift setting is required
- In the production of ready-mixed concrete, both with and without pumps.
- To safeguard against freezing in frigid weather conditions.
- It is utilized in the pouring of prefabricated and precast concrete.



Technical Specifications

Intensity	1,02 ±0,03 kg/lit
Feature	Energy Conservator
Colour	Vivid Yellow
Chemical Composition	Against Inorganic Compounds
Freezing point	0 °C
Chloride concentration	< 0,1
Application Ground Temperature	+5 °C, +25 °C

The information presented in this technical data sheet is derived from experimental results. The responsibility for the proper application of our original product rests with the user. Our company is solely accountable for the product's quality. This data sheet supersedes the information provided in the previous version. Our company reserves the right to amend any information contained within this data sheet.



Advantages

- It is devoid of chloride.
- Ready for use.
- It is impervious to water, frost, and severe weather conditions.
- It is utilized by incorporating it into cement.
- It connects swiftly.
- It offers volume enhancement and plays a significant role in concealing hairline cracks.
- It is free of solvents.
- It enhances the reaction between water and cement.
- It is applicable to moist surfaces.



Surface Preparation

The surface must be devoid of any layers that may compromise adhesion, including oil, grease, dirt, paint, rust, and salt efflorescence. Weak surfaces, such as cracked plaster, should be prepared by eliminating easily detachable textures, followed by moistening the surface. It is essential to ensure that no water remains on the surface during the moistening process. Concrete surfaces should be thoroughly cleaned and roughened to prevent significant water leaks. Any existing solvent-based paint on the surface intended for application must be removed prior to proceeding.



Mixture

CLASS 4, offered in 30 kg and 200 kg liquid containers, is ready for use but requires thorough shaking prior to application. Any surplus CLASS 4 should be stored in its original packaging with the lid securely closed.



Application Details

After shaking, the specified quantity of CLASS 4 should be combined in a clean container until a uniform mixture is achieved. It is advisable to use a measuring cup to ensure consistency in the mixture.

Cement is distributed to thoroughly envelop the surface of the liquid material. The mixture is rapidly combined until it attains a dough-like consistency. Introduce the necessary quantity of CLASS 4 into the container.

Avoid application during rainy or wet weather conditions. Do not add powder or water to set mortar.

The dosage must be established through prior laboratory testing, taking into account the specific class and properties.



Consumption

When utilized independently: For every 100 kg of binder (cement-ash-microsilicate), employ 2.5 – 5 kg.

When utilized in conjunction with another plasticizer, the ratio is 1-2 kg per 100 kg of binder (cement-ash-micro silicate).



PACKAGING

30 kg container

200 kg container



Shelf life

In its unopened packaging, it can be stored for 12 months in a cool, dry location, shielded from sunlight, at temperatures ranging from +10°C to +25°C.



Attention

Avoid applications when the ambient temperature is below +5°C or above +30°C. Refrain from applying in direct sunlight, rain, or wind. Do not apply on surfaces that have been exposed to sunlight for extended periods, are frozen, or are at risk of freezing within 24 hours.

R10: Keep away from children.

R20/22: Harmful if inhaled or ingested.

R52/53: Toxic to aquatic life, may result in long-term detrimental effects in the aquatic ecosystem.

R65: Harmful. May result in lung damage if ingested.

S7: Store in a securely sealed container.

S24/25: Avoid contact with eyes and skin. S28: In the event of skin contact, rinse immediately with abundant water.

S29: Do not release into the sewage system.

S46: If ingested, seek medical attention promptly and present the container or label.