



Product Overview

A two-component, crystalline waterproofing mortar formulated with cement and modified by polymer emulsion, designed for application under both negative and positive water pressure, and exhibiting resistance to sulfates, chlorides, and various chemicals.



Application Domains

- Indoor and outdoor.
- For cement-based plasters and screeds, exposed concrete, and all other application surfaces, please reach out to us for consultation.



Technical Specifications

Mortar Density	1,69±0,1 g/cm ³
Capillary Water Uptake	w < 0.1 kg/m ² ·h ^{0.5}
Working Hours	45 minutes
Interfloor Waiting Time	6 seconds

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 occupies capillary spaces with its enduring crystals and ensures water impermeability.
- The crystals it produces are insoluble, adhere firmly to the surface, and remain stable over time.
- It can be applied to waterproof concrete elements from both negative and positive orientations.
- It safeguards concrete and reinforcement against the corrosive impacts of water.
- Thanks to its permeability to water vapor, it enables the concrete to breathe.
- It enhances the abrasion and impact resistance of concrete.
- It is non-toxic and suitable for use in drinking water reservoirs.



Surface Preparation

The surface must be clean, moist, smooth, and in good condition. Dust, lime, paint residue, form release agents, and similar materials should be eliminated from the surface using a wire brush. Highly porous surfaces, such as raw concrete and cement-based plaster, should be dampened with clean water, and the surface should remain moist until the water layer evaporates.



Mixture

CLASS CRYSTAL 2K 3 kg liquid component must be combined with 5.5–6.0 kg of mixing water and blended with 25 kg of CLASS CRYSTAL 2K powder component in a clean container using a low-speed mixer until a uniform consistency is attained, for approximately 2–3 minutes. CLASS CRYSTAL 2K should be applied to the entire surface in a minimum of 2 coats using a brush, with each coat applied perpendicular to the preceding one. A minimum interval of 6 hours should be observed between coats. If the subsequent coat application occurs 12 hours or more after the previous coat, the surface should be re-moistened prior to application. Drinking water tanks must be disinfected with a hypochlorite solution and rinsed with drinking water at least 7 days post-application, after which they can be refilled with water. This procedure should be repeated annually.



Application Details

The mixture in the container must be utilized within 20 minutes. The prepared mixture is to be applied to the water-saturated surface using a brush. The second coat should be applied before the first coat dries and prior to the onset of crystallization. This timeframe ranges from 3 to 5 hours, depending on ambient conditions. The maximum interval for application between coats is 6 hours. Following application, it is essential to prevent rapid water loss from the material. Curing liquids are not to be employed. CLASS CRYSTAL 2K should remain moist for 5 to 7 days. In water tanks, the tank should be filled with water 24 hours post-application to enhance crystal formation time and penetration depth. For exterior surface applications, the surface must be shielded from sunlight, frost, wind, and rain for the initial 24 hours.

CLASS CRYSTAL 2K



BENZKİM

Two-Component Crystallized Waterproofing Compound



Consumption

3 kg/m² (for an application thickness of 2 mm)



PACKAGING

25 + 3 KG Set



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. Do not apply in direct sunlight, rain, or wind. Refrain from applying 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: Harmful to aquatic organisms; may result in long-term detrimental effects in the aquatic environment.

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 ample water.

S29: Do not release into the sewage system.

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

LEGAL NOTICE

The information provided herein regarding BENZKİM CLASS products, particularly the recommendations concerning their application and end use, is presented in good faith based on BENZKİM CLASS's current knowledge and experience under standard conditions, provided that these products are stored and applied correctly in accordance with BENZKİM CLASS's guidelines. The variability of products, application surfaces, and application areas in practice is significant. Therefore, when utilizing BENZKİM CLASS products, it is imperative to apply the appropriate product under the correct conditions and in the designated location, while strictly adhering to the information and instructions provided by BENZKİM CLASS regarding commercial suitability and/or suitability for a specific purpose. Failure to do so may result in BENZKİM CLASS being absolved of any responsibility for potential damages. The product user is responsible for testing the product's suitability for the intended application and purpose. BENZKİM CLASS reserves the right to modify the properties of its products. The rights of third parties must be duly respected. All orders are accepted in accordance with our current terms and conditions pertaining to sales and shipping. Users are encouraged to consult the latest version of the local Product Information Sheet for the relevant product, which can be obtained by contacting BENZKİM CLASS.

