



Product Overview

It is a cement-based, single-component, capillary-active waterproofing material applied from both positive and negative directions, enhanced with active chemical additives, that safeguards and impermeabilizes reinforced concrete elements by generating a crystalline effect.



Application Domains

It is utilized in the waterproofing of foundations and retaining walls, water tanks, tunnels, elevator shafts, retaining walls, dams, and ports, effectively countering water pressure from both the application surface (positive water pressure) and the opposing direction (negative water pressure).



Technical Specifications

Adhesive Strength	$\geq 1.0 \text{ N/mm}^2$
Capillary Water Uptake	$w < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
Working Hours	15-20 minutes
Maturation Phase	3-5 minutes

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 designated for coating must be clean, intact, and devoid of all forms of oil, rust, cement residue, and dirt that could hinder adhesion. If the surface is excessively soft or heavily contaminated, a pre-treatment process such as sandblasting or acid washing is recommended prior to application. Water leaks should be sealed using Quattro Shock Plugs. Bevels should be applied to sharp corners and joints of structural elements. The surface should be moistened and thoroughly saturated with water before application.



Mixture

To CLASS CRYSTAL Crystallized Waterproofing Material, 5-6 liters of mixing water should be gradually introduced using a low-speed mixer, ensuring continuous stirring until a uniform mixture is achieved. Always incorporate the water into the CLASS CRYSTAL while mixing.



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 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 during the initial 24 hours.





Consumption

1.0 kg/m² of powder product is required for each coat, with a minimum of two coats recommended.



PACKAGING

20 kg Kraft Bag



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.

