

TECHNICAL DATA

CORUCRYSTAL



PRODUCT DESCRIPTION

It is a cement-based, crystallized water-crystallized water insulation mortar that is resistant to negative and positive water pressure, consists of chemical substances and fine aggregate that are activated by water and moisture, and penetrates into the concrete by reacting with moisture and free lime, filling the capillary gaps.

AREAS OF USE

- Indoors and outdoors,
- In negative and positive waterproofing of structures such as basement curtains,
- Water storage tanks, swimming pools,
- In vertical and horizontal applications,
- It can be used as a spreader before the foundation concrete,
- In foundation insulation and curtain walls,
- On unplastered surfaces such as brick, gas concrete, pumice,
- It is used in reinforced concrete pipes.

TECHNICAL SPECIFICATIONS

Chemical structure	Single component crystalline
Water impermeability	≥5 bars (negative-positive)
Compressive strength (N/mm ²)	>30
Bending strength (N/mm ²)	>4
Adhesion strength	>1
Application temperature	Between 10°C and 30°C
Application tools	Brush-roller-spray
Color properties	Gray
Complete drying time	(23°C) 24-48 hours
Average consumption	2kg-3kg/m ²

FEATURES

- Resistant to positive and negative water pressure.
- It prevents water passage thanks to its crystal structure.
- It is resistant to abrasion.
- It is non-toxic and ideal for water tanks.
- It is water resistant.
- It has high adhesion strength.
- It has high flexibility and breathes.
- It will not break, crack or swell up and lift off the surface.
- Easy to apply.
- It has high mechanical resistance to abrasion and impacts.
- It is resistant to salt water, grease and oil and is also impermeable.

SURFACE PREPARATION

- The application surface must be cured.
- The surface must be free of any materials such as oil, dirt, dust, paint, etc. that may prevent adhesion.
- Weak parts of the concrete should be repaired and loose tissues should be scraped off.
- The application surfaces must be dry or slightly damp.
- Layers that will reduce adhesion such as oil, grease, dirt, paint, cement grout, rust, mold oil, salt efflorescence must be completely cleaned before application.
- Surfaces must be clean, solid, free from bearing and loose particles.
- The surface should be prepared by carefully repairing any cracks and breaks that may be present on the surface with CORURMİNCE repair mortar.
- After the surface is ready, primer application should be started.

APPLICATION

- It can be used as a pre-foundation sprinkler. (3kg/m²) can be applied over the iron.
- Sprinkling should be done before pouring the concrete.
- On dry surfaces, the concrete surface is moistened.
- Depending on the application technique, mix with ~10lt of water for brush application and ~7lt of water for trowel application until no lumps remain.
- The prepared mixture is applied to the surface in 2 layers with a hard brush.
- The second coat should be applied before the first coat dries completely.
- The prepared mortar should be used within 20 minutes.
- When applied with a trowel, the thickness should be between 5-10 mm.
- If desired, a thin layer of CORUCRYSTAL can be applied with a brush over the trowel application.
- The application of each layer should be perpendicular to the previous one and should be completed in one go.

NOTE: Application should be done in at least two layers. The time between layers should not exceed 5 hours. After the application, the surfaces should be kept moist for 5 days by spraying or sprinkling water and prevented from drying.

STORAGE, PACKAGING, CONSUMPTION

- It should be stacked up to 8 times in its original packaging.
 - It should be stored in a closed area.
 - Necessary precautions must be taken against water, humidity, frost and severe weather conditions.
 - It should be stored on a pallet and in a dry place between +10°C and +25°C.
 - Punctured, opened and burst buckets should be closed or used immediately.
 - If the specified storage conditions are observed, the storage life is 12 months.
 - CORUCRYSTAL is presented in 20 kg Kraft bags.
 - A controlled sample is recommended for exact consumption.
 - The specified rates are theoretical standards and may vary depending on the application method and intensity of use.
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SAFETY AND WARNINGS

- Freshly applied material should not be exposed to rain or frost for 24 hours.
- It should not be applied in rainy weather below (+) 10°C.
- It should not be applied to wet and frozen surfaces.
- Pay attention to the safety signs and warnings on the packaging.
- Adequate ventilation should be provided in workshops, and open flames and high temperatures should be avoided.
- Stir well before application. Do not leave the lid of the package open.
- Avoid application in weather conditions where rain is expected or under rain.
- It should not be brought into contact with skin, eyes and mouth, and the application should be carried out by taking the necessary work safety precautions.
- Avoid applying at temperatures below +10°C and above +30°C, do not try to use frozen material by adding water.