

CRYSTAL 25

Cement Based, Crystalized Waterproofing Material

Description

Cement-based, one component, applicable on positive and negative directions, active chemical additive content waterproofing material that protects the concrete and provides water impermeability by creating a crystalized effect. It can be produced in grey or red color.

Fields of Application

In internal and external applications from positive and negative directions; foundations and curtain walls, water tanks, tunnels, elevator pits, retaining walls, dams and harbors.

Features and Benefits

- Fills the capillary gaps by forming permanent (insoluble) crystals and enables water impermeability.
- Resistant to negative and positive water pressure.
- Protects the concrete against corrosion.
- Water vapour permeable.
- Improves abrasion and impact resistance of concrete.
- Non-toxic. Safely used in water tanks.

Technical Data

Content	Mineral fillers, Polymer Modified Additives and Special Cement
Color	Grey
Mixing	20 kg CRYSTAL 25 : 5-6 L water
Pot Life	20 minutes
Adhesion Strength	≥ 1.0 N/mm ²
Capillary Water Absorption	w<0.1 kg/m ² .h ^{0,5}
Maturity Period	3-5 minutes
Application Temperature	+5°C to +30°C
Service Temperature	-20°C to +80°C
Application Tools	Brush
Drying Time	
<i>Mechanical Strength</i>	1 day
<i>Water Impermeability</i>	7 days
<i>Re-coat</i>	3 to 5 hours
<i>Final Strength</i>	14 days

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HS Code	3824.99.70.00.00
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Application Procedure

Preparation of Substrate

The application surface must be durable, clean and clean off materials which prevent bonding, such as dust, oil, rust etc. Concrete surface must be smooth and cracks must be filled with plaster modified with **LATEX** or **REPAMERK 301**. Water leakage areas should be filled with **WATERSHOCK**. The sharp corners and joints of structural members must be chamfered. Before the application, the surface must be saturated with water by moisturizing.

Application Method

20 kg **CRYSTAL 25** should be diluted with 5-6 lt water under the low speed mixture during 3-5 minutes until getting homogenous mixture. For every application, water should be added on **CRYSTAL 25** and mixture should be consumed within 20 minutes. Mixture should be applied on the surface with brush. Second coat must be applied when the first coat sufficiently cured. This time may change between 3 to 5 hours depending on environment conditions. Application period between each coat must be maximum 6 hours. After **CRYSTAL 25** application, material must be protected from losing its water rapidly. Do not use curing compounds. Applied surface must be kept wet for 5-7 days. In water tanks, 24 hours after the application, water tank must be filled with water to increase crystal formation and penetration depth.

Consumption

1,0 kg/m² powder product is applied for each coat. Recommended at least 2 coats application, if needed 3 coats might be applied.

Packaging

20 kg kraft bag

Shelf Life

12 months in original, unopened package.

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Storage

Store in dry area between +5°C and +35°C. Protect from heat, freezing and direct sunlight.

Cleanup Information

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

Cautions / Limitations

- After application, material must be protected from losing its water rapidly.
- Do not use curing compounds.
- Do not apply in rainy, freezing conditions or during precipitation.
- **CRYSTAL 25** must be kept wet for 5-7 days. In water tanks, 24 hours after application, water tank must be filled with water to increase crystal formation.
- Protect the surface from direct sun light, wind, frost or rain in 24 hours.
- Do not use when air and surface temperatures are below +5°C and above +30°C.

Health and Safety

Warning! Cause eye and skin irritation. If eye or skin contact, get immediate medical attention. If swallowed, do not induce vomiting. Call a physician or poison control center. Never give anything by mouth to an unconscious person.


Wash hands thoroughly after handling. Wear protective clothing, gloves, eye and face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Dispose of unused, contents, container and other contaminated wastes in accordance with local, state, federal and provincial regulations.

Keep container closed when not in use. Keep out of the reach of children.

Limited Warranty: This product is subject to a written limited warranty which can be obtained free of charge from BAUMERK Company. Please contact with technical service department for further information and support.

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1020-CPR-040 051768 DOP NO: 01504-204 EN 1504-2:2004 CRYSTAL 25 Çimento Esaslı Kristalize Su Yalıtım Malzemesi Kaplama Uygulaması 2.2/8.2 Cement Based, Crystalized Waterproofing Material Coating Application 2.2/8.2	
Water-vapour permeability Su Buharı Geçirgenliği	Sınıf I/Class I sD < 5 m
Capillary Water Absorption and Water Permeability Kapiler Su Emme Ve Su Geçirgenliği	w < 0,1 kg/m ² . h _{0,5}
Measurements of bond strength by pull-off Çekip koparma deneyi yoluyla yapışma dayanımı	≥1 N/mm ²
Response to Fire Yangına Tepki	A1
Dangerous materials Tehlikeli Maddeler	In accordance with clause 5.3 Madde 5.3e uygun