

GRADASEAL CRS 305

Cement Based, Crystallized Waterproofing Material

Product Technical Document

Issue: 12.03.2015

Revised:

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 crystallized effect. It can be produced in grey or red color.

FEATURES

- 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.
- Single component.

TYPICAL APPLICATIONS

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

Technical Data

Content : Mineral fillers, Polymer Modified Additives and Special Cement

Color : Grey

Mixing : 20 kg CRS 305 : 5-6 L water

Pot Life : 20 minutes

Adhesion Strength : ≥ 1.0 N/mm² w

Capillary Water Absorption : $w < 0,1$ kg/m² .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

Mechanical Strength : 1 day

Water Impermeability : 7 days

Re-coat : 3 to 5 hours

Final Strength : 14 days

HS Code : 3824.99.70.00.00

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 GRADA LATEX or CONREPA 410. Water leakage areas should be filled with SHOCKSTOP JET. 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 CRS 305 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 CRS 305 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 CRS 305 application, material must be protected from losing its water rapidly. Do not use curing compounds. Applied surface must be kept wet for 5-7

GRADA YAPI KİMYASALLARI VE İNŞAAT MALZEMELERİ ÜRETİM SAN. TİC. A.Ş.

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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.

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. ▪ CRS 305 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 GRADA A.Ş. Company. Please contact with technical service department for further information and support.

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GRADA YAPI KİMYASALLARI VE İNŞ. MALZ. PAZ. VE ÜRT. SAN. TİC. A.Ş. Çınardere Mah. Akan Sok. No:13/3 Kat:2 Pendik / İstanbul TÜRKİYE 19	
1020 – CPR – 040 060274 DOP NO: 0004 EN 1504-2:2004 GRADASEAL CRS 305 Tek Bileşenli Çimento Esaslı Kristalize Su İzolasyon Malzemesi Kaplama Uygulaması 2.2/8.2	
Su Buharı Geçirgenliği	Sınıf I s _D < 5 m
Kapiler Su Emme Ve Su Geçirgenliği	w < 0,1 kg/m ² h ^{0,5}
Çekip Koparma Deneyi Yoluyla Yapışma Dayanımı	≥1 N/mm ²
Yangına Tepki	A1
Tehlikeli Maddeler	Madde 5.4'e uygun



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