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Technical Data Sheet

BETOCRETE®-CP-350-CI

Art.-No. 2 06445

Crystalline concrete additive with corrosion inhibitors

Only for sale outside the EU due to no CE-Mark.

BETOCRETE-CP-350-CI is powder-based admixture for designing a water tight concrete with innovative 2 in 1 technology. Nano-crystals are formed in the capillaries by special catalysts, which become active on contact with water forming a sustainable and permanently water impermeable concrete. In addition, reinforcing steel is protected against corrosion.

- Powder based.
- Innovative 2 in 1 technology.
- Crystallization of the capillaries.
- Crack healing possible for penetrating cracks up to 0.4 mm and for map/pattern cracks up to 0.5 mm.
- Corrosion inhibitor.
- Improvement of the resistance to freeze/thaw.
- Reduction in Chloride migration.
- Protects reinforcement from corrosion.
- Minimization of maintenance and repair costs.
- Time saving.

Areas of application:

BETOCRETE-CP-350-CI can be applied to all concrete where water penetration should be permanently prevented.

These are for example: Cooling towers at power stations, tanks and containers, retaining basins, swimming pools, parking garages, parking lot levels, foundations, sandwich units, waterproof concrete, sewer channels/manhole access points, tunnels, concrete pipes and everywhere, where watertightness is needed.

Technical data:

Colour: grey
Consistency: Powder
Bulk density: 1.12 g/cm^3 Application temp.: $\geq +5 \text{ °C}$

Storage: dry, 12 months in the original

unopened container. Use opened containers promptly.

Packaging: 20 kg foil bag

Concrete requirements:

Minimum cement content: CEM I 270 kg/m³

CEM II 290 kg/m³ CEM III /A 380 kg/m³

Pozzolanic cement with

pozzolan content >20%: 300 kg/m³
Granulated slag: max. 100 kg/m³
Fly ash: max. 80 kg/m³

Product preparation:

Dosage:

The required dosage rate is 0.75 - 1.25% based on CEM weight and is dependent, amongst other criteria, on the concrete formula and the reactivity of the cement. The dosage is to identify with a suitability trial. The following dosage levels have stood the test of time:

w/c value < 0.4 0.75% based on CEM > 0.4-0.5 0.80% based on CEM

> 0.5-0.55 0.95% based on CEM

Do not exceed the maximum dosage level of 1.25 % based on CEM weight.

Dosage at concrete plants:

BETOCRETE-CP-350-CI is to be dosed into the aggregate and mixed for a minimum of 30 seconds before adding the water and cement. Subsequently mix for a minimum of 45 seconds until ready for use.

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BETOGRETE®-GP-350-GI

Dosage in concrete trucks:

The addition of BETOCRETE-CP-350-Cl on site (concrete truck) is not carried out as a powder but as a very aqueous suspension. The required amount of BETOCRETE-CP-350-Cl is premixed with water at a ratio of 1:1 (5 kg BETOCRETE-CP-350-Cl and 5 kg water) using a suitable vessel and stirrer and then completely emptied into the mixing drum of the truck. The secondary mix time should be 1 min/m³ of drum contents but at least 5 minutes. Ensure that additional water from the prepared suspension does not increase the required w/c value specified. Otherwise the water in the concrete recipe must be considered during production and prior to the addition of the suspension.

Advice:

- Dependent on composition, concrete modified with BETOCRETE-CP-350-CI can feature crystals on the surface of the concrete.
- Carry out preliminary trials in accordance with current standards before using BETOCRETE-CP-350-CI or other types of additives.
- Lignite fly ash is only suitable with restrictions.
- The use of CEM III/B&C cements is excluded.
- The prescribed crack width restrictions given by the Planner/Engineer/Structural Engineer must be respected in all circumstances. Differing interpretations are to be proven with relevant design verification and design suitability.
- Concrete with BETOCRETE-CP-350-CI must be produced, installed and cured following current valid standards.
- In rare circumstances BETOCRETE-CP-350-CI may influence the initial set of the concrete. As a system compatible product, RUXOLITH-T5 (VZ) is available to control the concrete.

Please observe a current valid EU safety data sheet!

This technical data sheet is a translation from German and does not consider local building codes or legal requirements. It shall be used as general reference for the product. Legally binding is only the German technical data sheet or the latest Data sheet from one of our foreign subsidiaries inside their sales territory.

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