

BETOCRETE®-CL-210-WP

Art.-No. 2 06444

Crystalline waterproofing admixture with hydrophobic effects

CE	
SCHOMBURG GmbH & Co. KG Aquafirstrasse 2-8 D-32760 Detmold 13 2 06444	
EN 934-2 BETOCRETE-CL-210-WP Waterproofing additive for concrete EN 934-2: T9	
Chloride content	max. 0.10 M.-%
Alkali content	max. 8.5 M.-%
Corrosion behaviour	
EN 934-1:2008, Annex A. 1	
Compressive strength	fulfilled
Capillary water absorption	fulfilled
Air content	fulfilled
Dangerous substances	NPD

NPD = „No Performance Determined“

contains components only from

BETOCRETE-CL-210-WP is a liquid admixture for designing a water tight concrete with innovative 2 in 1 technology. Initially it functions chemically and reduces the water absorption in the matrix. In the next step, nano-scale crystals are formed in the capillary system by special active catalysts, which become active on contact with water. This forms a concrete which is sustainable and permanently impermeable to water.

- Liquid
- Innovative 2 in 1 technology
- Crystallization of the capillaries
- Reduces capillary absorption
- Crack healing possible for penetrating cracks up to 0.4 mm and for map/pattern cracks up to 0.5 mm
- Improvement of the resistance to freeze/thaw
- Reduction in Chloride migration
- Minimization of maintenance and repair costs
- Time saving
- Simple and assured

Areas of application:

BETOCRETE-CL-210-WP 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:	white
Consistency:	liquid
Density (at +20°C):	1.05 g/cm ³
pH-value	approx. 11.5
Application temp:	+5 °C to +30 °C
Storage:	frost free, 12 months in the original unopened container at + 20°C. Use opened containers promptly.
Packaging:	1,040 kg container 220 kg drum 25 kg can
Water pollution class:	1 (Self classification)

Concrete requirements:

Minimum cement content:	CEM I	270 kg/m ³
	CEM II	290 kg/m ³
	CEM III /A	380 kg/m ³
Pozzolanic cement with pozzolan content >20%:		300 kg/m ³
Granulated slag:		max. 100 kg/m ³
Fly ash:		max. 80 kg/m ³

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Product preparation:

Dosage:

The required dosage rate is 1.75–2.25% 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	1.75 % based on CEM
	> 0.4–0.5	1.85 % based on CEM
	> 0.5–0.55	2.00 % based on

CEM Do not exceed the maximum dosage level of 2.25 % based on CEM weight.

Dosage at concrete plants:

BETOCRETE-CL-210-WP can be added to the mix water or added to the finished concrete mix.

Dosage in concrete trucks:

Place all the BETOCRETE-CL-210-WP into the mixing drum and then mix well for 1 minute per m³ of drum contents but for a minimum of 5 minutes and use quickly.

Advice:

- Dependent on composition, concrete modified with BETOCRETE-CL-210-WP can feature crystals on the surface of the concrete.
- Carry out preliminary trials in accordance with current standards before using BETOCRETE-CL-210-WP 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-CL-210-WP must be produced, installed and cured following current valid standards.
- BETOCRETE-CL-210-WP does not contain materials which cause corrosion.
- In rare circumstances BETOCRETE-CL-210-WP 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.