

BETOCRETE®-CL210-WP

Crystalline waterproofing admixture with hydrophobic properties



Material number	Package type	Colour	Units / pallet	Pc/package
206444001	25 kg, can	White	24,000	1,000
206444002	220 kg, drum	White	2,000	1,000
206444003	1,040 kg, IBC	White	1,000	1,000

Areas of application

- For integral crystalline waterproofing of concrete components in direct ground contact
- For foundations and watertight concrete components
- For economic, commercial, sports facilities and housing construction
- For infrastructure, water and wastewater structures
- For in-situ concrete, pre-cast concrete components and shotcrete

Product features

- Liquid
- Increased active crack healing in concrete
- Sealant in accordance with DIN EN 934-2: Table 9
- Improves frost resistance and resistance to freeze thaw
- Reduced chloride ion migration
- lower carbonation speed
- Available in a BBA-certified version

Advantages

- crack healing of surface and continuous cracks up to 0.4mm (tapering down to 0.5mm) possible
- Sealant reduces water absorption immediately
- Lower water input means lower input of concrete-damaging substances
- Increase durability of concrete component
- Minimisation of concrete servicing and maintenance costs
- Economic liquid dosing in the concrete plant

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Technical Data

Material properties

Density (spec. weight)	approx. 1.05 g/cm ³
Alkali content (Na ₂ O equivalent)	≤ 8.5 percentage by weight
Chloride content	≤ 0.1 %
pH value	approx. 11.00 - 12.00
Water pollution class (WGK)	1 (self-classification)

Mixing

Mixing time, concrete plant	> 45 seconds
Mixing time, mixer truck (transport concrete)	> 5 minutes

Application

Application temperature	approx. 8 - 40 °C
Recommended dosing in regards to cement	approx. 1.75 - 2.25 %

Material rate

Material consumption rate according to the area of application

Minimum cement content in concrete

Application

Dosing in concrete plant

BETOCRETE®-CL210-WP can be added with the mixing water or the finished concrete mixture.

Dosing in mixer truck

1. BETOCRETE®-CL210-WP is dosed directly into the mixing drum of the mixer truck
2. The mixing time must be approx. 1 minute per m³ drum content (however, at least 5 minutes)

Storage conditions

Storage

Store in a frost-free, cool and dry place. At min. 8 - 40 °C for 12 months in the original canister. Promptly use opened container.

Notes

- At storage temperatures > +30 °C, BETOCRETE®-CL210-WP may change colour. This will not have a negative influence on the product features.
- Stir BETOCRETE®-CL210-WP thoroughly after a long storage period (> 1 month).
- BETOCRETE®-CL210-WP modified concretes may have crystals on the surface, depending on the composition.
- Concrete with BETOCRETE®-CL210-WP must be produced, applied and post-treated in accordance with the currently valid standards.
- Lignite fly ash is only of limited suitability.
- The crack expansion limitations must be complied with by the planner/engineer/structural engineer under any circumstances. Contrary designs must be verified after the corresponding verification and suitability!
- In rare cases, BETOCRETE®-CL210-WP can influence the solidification behaviour of the concrete. As a system-compatible product, RUXOLITH-T5 (VZ) is available for controlling the concrete.
- Before applying BETOCRETE®-CL210-WP, even with other types of additives, preliminary tests must be carried out in accordance with the valid standards.
- The use of CEM III/C cements is prohibited.
- As the amount of Portland cement in the concrete decreases and the dosage is reduced, the crystallization processes may slow down.
- Excluded are concretes of exposure class XA3 in accordance with DIN EN 206-1/DIN 1045-2.
- Movements in the concrete component, e.g. due to traffic loads or temperature differences, can cause sealed crystalline cracks to open again.

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Observe applicable safety data sheet!

Explanations

Conformity / Declaration / Verification

	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 32760 Detmold, Germany 13 2 06444	
EN 934-2 BETOCRETE-CL210-WP Sealant for concrete EN 934-2:T9	
Chloride content	max. 0.10 M.-%
Alkali content	max. 8.5 M.-%
Corrosion behaviour	Only contains components per EN 934-1:2008, Annex A.1
Compressive strength	Satisfied
Capillary water absorption	Satisfied
Air content	Satisfied
Hazardous substances	NPD

NPD = "No Performance Determined"

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