

Crystalline waterproofing admixture with hydrophobic properties











Material number	Contents	Unit of quantity	Packaging	Colour	
206444001	25	KG	Canister	White	
206444002	220	KG	Drum	White	
206444003	1040	KG	Container (IBC)	White	

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 thaw
- Reduced chloride ion migration
- lower carbonation speed
- watertight concrete sealing system in accordance with BBA

Advantages

- \bullet Crack healing of surface and continuous cracks up to 0.4 mm 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





Areas of application

- For the integral crystalline waterproofing of concrete structures
- For foundations and watertight concrete components
- $\bullet\hspace{0.4cm}$ For economic, commercial, sports facilities and housing construction
- For infrastructure, water and wastewater structures
- For in-situ concrete, pre-cast concrete components and shotcrete
- Except for XA3 in accordance with DIN EN 206-1/DIN 1045-2

Technical Data

Material properties

Density (spec. weight)	approx. 1.05 g/cm ³
Alkali content (Na2O equivalent)	≤ 8.5 percentage by weight
Chloride content	≤ O.1 %
pH value	approx. 11.00 - 12.00
Water pollution class (WGK)	1 (Selbsteinstufung)
Mixing	
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Mixing time	approx. 45 seconds
•	approx. 45 seconds approx. 1 minutes per m³
Mixing time	1.1
Mixing time Mixing time, mixer truck (transport concrete)	1.1



Material consumption

Material consumption rate according to the area of application

The following dosing levels have proven to be successful:

w/c ratio	Dosing level	
< 0.4	1.75 % relative to CEM	
> 0.4-0.5	1.85 % relative to CEM	
> 0.5-0.55	2.00 % relative to CEM	

Do not exceed the max. dosing level of 2.25% relative to CEM.

For a cement content of \geq 400 kg/m³, a dosing level of 7.00 kg/m³ is sufficient.

Additional technical notes

Requirement for the concrete					
Minimum cement content	CEM I	270			
in kg/m³	CEM II	290			
	CEM III/A	350			
	CEM III/B	380			
Minimum quantities of binders/mixtures	Portland cement	270			
in kg/m³	Portland cement ≤ 35 % mixed with blast furnace slag, fly ash or pozzolans	290			
	Portland cement ≤ 50 % mixed				
	with blast furnace slag	350			
Maximum additions to the binder	Blast furnace slag	100			
in kg/m³	Fly ash	80			

Usage

Dosing in concrete plant

 ${\tt BETOCRETE}^{\textcircled{\scriptsize{\textbf{S}}}}\text{-}{\tt Cl210\text{-}WP}\ can\ be\ added\ with\ the\ mixing\ water\ or\ the\ finished\ concrete\ mixture.}$

Dosing in mixer truck

- 1. BETOCRETE®-CL210-WP is dosed directly into the mixing drum of the vehicle.
- 2. The mixing time must be ca. 1 Minuten pro m^3 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 canister.



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 $^{\otimes}$ -CL210-WP thoroughly after a long storage period (> 1 month).
- ullet BETOCRETE $^{\scriptsize @}$ -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.

Annotations

Conformity / Declaration / Verification



NPD = "No Performance Determined"

The rights of the buyer with regard to the quality of our materials are based on our terms and conditions of sale and delivery. Our technical advice team will be happy to advise you in the case of requirements that exceed the scope of the application described here. In order to be binding, a legally binding written confirmation is required. The product description does not release the user from a duty of care. Lay a test area in the event of uncertainty. This version becomes invalid in the event of a new version being issued.

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