

BETOCRETE®-CL170-P

Crystalline waterproofing admixture with liquefying properties











Material number	Contents	Unit of quantity	Packaging	Colour
206443001	25	KG	Canister	Colourless
206443002	220	KG	Drum	Colourless
206443003	1100	KG	Container (IBC)	Colourless

Product features

- Liquid
- Increased active crack healing in concrete
- Concrete plasticiser (BV) per DIN EN 934-2:T2
- Water savings of up to 10 %
- Improves frost resistance and resistance to thaw
- Reduced chloride ion migration
- Suitable for drinking water per DVGW worksheet W-347 and W-270

Advantages

- Crack healing of surface and continuous cracks up to 0.4 mm possible
- 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
- 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
- BETOCRETE-CL210-WP shows the highest efficacy in exposure class XS





BETOCRETE®-CL170-P

Technical Data

Material properties

Density (spec. weight)	approx. 1.18 g/cm³
Alkali content (Na2O equivalent)	≤ 10.5 percentage by weight
Chloride content	≤ 0.1 %
Water pollution class (WGK)	1 (Selbsteinstufung)
Mixing	
Mixing time	approx. 45 seconds
Mixing time, mixer truck (transport concrete)	approx. 1 minutes per m³
Application	
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Application temperature	from 8 °C to 40 °C

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	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	380		
Maximum additions to the binder	Blast furnace slag	100		
in kg/m³	Fly ash	80		

Usage

Dosing in concrete plant

 ${\tt BETOCRETE}^{\textcircled{\scriptsize 0}-CL170-P$ can be added with the mixing water or the finished concrete mixture.}$

Dosing in mixer truck

- 1. BETOCRETE®-CL170-P is dosed directly into the mixing drum of the vehicle.
- 2. The mixing time must be ca. 1 Minuten pro m³ drum content (however, at least 5 minutes).





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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.

Disposal

Must not be disposed of in household waste. Do not allow to enter the sewer system.

Notes

- Stir BETOCRETE[®]-CL170-P thoroughly after a long storage period (> 1 month).
- BETOCRETE[®]-CL170-P modified concretes may have crystals on the surface, depending on the composition.
- At storage temperatures > +30 °C, BETOCRETE[®]-CL170-P may change colour. This will not have a negative influence on the product features.
- Concrete with BETOCRETE®-CL170-P must be produced, applied and post-treated in accordance with the currently valid standards.
- Lignite fly ash is only of limited suitability.
- The use of CEM III/B&C cements is prohibited.
- 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!
- Before applying BETOCRETE[®]-CL170-P, even with other types of additives, preliminary tests must be carried out in accordance with the valid standards
- In rare cases, BETOCRETE®-CL170-P can influence the solidification behaviour of the concrete. As a system-compatible product, RUXOLITH-T5 (VZ) is available for controlling the concrete.

GISCODE: BZM30

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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