

BETOCRETE®-CP360-WP

Crystalline waterproofing admixture with hydrophobic properties



Material number	Package type	Colour	Units / pallet	Pc/package
206446003	700 kg, Big Bag, BBA	Grey	1,000	1,000
206446002SXP	17 kg, bag, BBA	Grey	48,000	1,000
206446004SXP	3 kg, bag (water soluble), cardboard, BBA	Grey	192,000	8,000
206446006SXP	3 kg, bag (water soluble), BBA	Grey	192,000	1,000
206446008SXP	3 kg, bag (water soluble)	Grey	192,000	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
- BETOCRETE-CL210-WP shows the highest effectiveness in exposure class XS

BETOCRETE[®]-CP360-WP

Product features

- Powder
- 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
- Suitable for drinking water after DVGW worksheet W-347 and W-270

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

Technical Data

Material properties

Bulk density	approx. 0.8 cm ³
Alkali content (Na ₂ O equivalent)	≤ 21 percentage by weight
Chloride content	≤ 0.1 %
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	min. 5 °C
Recommended dosing in regards to cement	approx. 0.75 - 1.25 percentage by weight

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Material rate

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	0.75 % relative to CEM
> 0.4-0.5	0.80 % relative to CEM
> 0.5-0.55	0.90 % relative to CEM

Do not exceed the max. dosing level of 1.25% relative to CEM. For a cement content of $\geq 400 \text{ kg/m}^3$ a dosing level of 3.50 kg/m^3 is sufficient.

Minimum cement content in concrete

Requirement for the concrete		
Minimum cement content in kg/m^3	CEM I	270
	CEM II	290
	CEM III/A	380
	CEM III/B	400
Minimum quantities of binders/mixtures in kg/m^3	Portland cement	270
	Portland cement $\leq 35\%$ mixed with granulated slag, fly ash or pozzolans	290
	Portland cement $\leq 50\%$ mixed with granulated slag	380
Maximum addition to the binder in kg/m^3	Blast furnace slag	100
	Fly ash	80

Application

Dosing in concrete plant

1. BETOCRETE®-CP360-WP must be dosed onto the aggregates and mixed for at least 30 seconds before adding the water and cement.
2. Then finish mixing for at least 45 seconds until ready for use.

Dosing in mixer truck

1. BETOCRETE®-CP360-WP is dosed directly into the mixing drum of the mixer truck
2. The mixing time must be approx. 1 minute per m^3 drum content (however, at least 5 minutes)

Storage conditions

Storage

Cool, dry, protected from sunlight. Min. 24 months in the original canister. Promptly use opened container.

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Notes

- BETOCRETE®-CP360-WP modified concretes may have crystals on the surface, depending on the composition.
- Concrete with BETOCRETE®-CP360-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. Contrary designs must be verified after the corresponding verification and suitability!
- In rare cases, BETOCRETE®-CP360-WP can influence the solidification behaviour of the concrete. As a system-compatible product, RUXOLITH-T5 (VZ) is available for controlling the concrete.
- Unless otherwise agreed, the manufacturer is responsible for the concrete mix design.
- The functionality of the concrete mix design including BETOCRETE® must be verified as part of an initial test.
- The use of CEM III/C cements is prohibited.
- When using water-soluble paper bags, the water demand may increase.
- 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.

Observe applicable safety data sheet!

Explanations

Conformity / Declaration / Verification

	
SCHOMBURG GmbH & Co. KG Aquafinstraße 2-8 D-32760 Detmold (Germany) 17 2 06446	
EN 934-2 BETOCRETE-CP360-WP Sealant for concrete EN 934-2:T9	
Chloride content	max. 0.10 M.-%
Alkali content	max. 21.0 M.-%
Corrosion behaviour	only contains components after EN 934-1:2008, Annex A.1
Compressive strength	fulfilled
Capillary water absorption	fulfilled
Air content	fulfilled
Hazardous substances	NPD

NPD = "No Performance Determined"

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