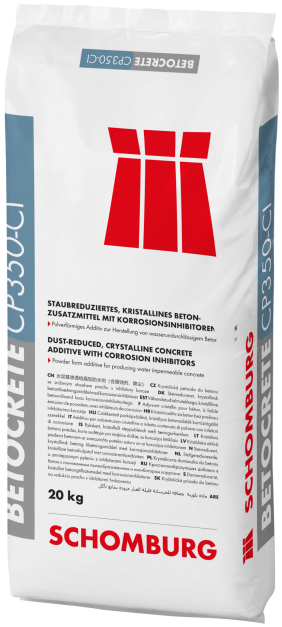
BETOCRETE®-CP350-CI

Concrete admixture with crystalline effect and corrosion inhibitor



Material number	Contents	Unit of quantity	Packaging	Colour
206456002	3	KG	Bag (water soluble)	Grey
206456001SXP	20	KG	Bag	Grey

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

Product features

- Powder
- Increased active crack healing in concrete
- Corrosion inhibiting effect
- Improves frost resistance and resistance to thaw
- Reduced chloride ion migration
- Suitable for drinking water after DVGW worksheet W-347 and W-270

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Advantages

- crack healing of surface and continuous cracks up to 0.4mm (tapering down to 0.5mm) possible
- Minimisation of concrete servicing and maintenance costs
- Reduction of capillary absorption
- Lower water input means lower input of concrete-damaging substances
- Increase durability of concrete component

Technical Data

Material properties

Bulk density	approx. 1.12 cm³

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

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	0,95 % relative to CEM

Do not exceed the max. dosing level of 1.25% relative to CEM. For a cement content of ≥ 400 kg/m³ a dosing level of 3.50 kg/m³ is sufficient.

Minimum cement content in concrete

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

Application

Dosing in concrete plant

1. BETOCRETE®-CP350-CI 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®-CP350-CI 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)

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Storage conditions

Storage

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

Disposal

Product residues can be disposed of in accordance with disposal code AVV 17 01 07.

Notes

- BETOCRETE®-CP350-CI modified concretes may have crystals on the surface, depending on the composition.
- Before applying BETOCRETE®-CP350-CI, even with other types of additives, preliminary tests must be carried out in accordance with the 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!
- Concrete with BETOCRETE®-CP350-CI must be produced, applied and post-treated in accordance with the currently valid standards.
- In rare cases, BETOCRETE®-CP350-CI can influence the solidification behaviour of the concrete. As a system-compatible product, RUXOLITH-T5 (VZ) is available for controlling the concrete.
- 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!

GISCODE: BZM40