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SCHOMBURG

Technical Data Sheet

BETOCRETE C-16

Art.-No. 4 06149

Crystalline waterproofing concrete admixture

Primary Uses:
BETOCRETE C-16 is a crystalline technology concrete admixture used to produce permanently active waterproof concrete in:
- Water retaining structures; potable water tanks, sewage treatment plants, septic tanks.
- Water excluding structures; retaining walls, tunnels, elevator pits, dams.
- Below grade structures; piles foundations, basements.
- Mass concrete.

Advantages:
- Permanently active; will self heal future static cracks up to 400 microns.
- Improved final strength.
- Provides additional protection to reinforcement steel by reducing chloride ion diffusion.
- Can be used in high w/c ratio (up to 0.55) concretes.
- Liquid; no lumping, easily dispersed.
- Withstands high water pressures (up to 14 bars).
- Compatible with most types of concrete admixtures.
- Eliminates need for surface waterproofing.

Primary Properties:

Colour:	clear - colourless
Form:	liquid
Density (+20° C.)	1.15 g/cm³
pH-value:	11.5
Processing temp.:	+8° C to +30° C

Dosage Range:

w/c ratio < 0.45:	2% by weight of CEM
w/c ratio > 0.45:	3% by weight of CEM

Dosage in ready-mix factory:
BETOCRETE C-16 can be dosed together with the gauging water or to the ready mix as the last component.

Dosage in truck mixer on the job site:
2-3 m.-% of BETOCRETE C-16 is dosed into the mixer drum and then thoroughly mixed for 3-5 minutes. Pour without delay.

Instructions for Use:
When stored for extended times, stir BETOCRETE C-16 well before use.
Control of the concrete mix design regarding w/c ratio < 0,55 prior to dosing BETOCRETE C-16.
Workability time is approx. 45 minutes after the addition of BETOCRETE C-16.
The addition of a concrete retarder is necessaary when using Portland Cement Type II or III. Suitability tests have to be carried out before usage.
When using BETOCRETE C-16 at temperatures below +10° C, the product shall be blended with water in the ratio 1:1 prior to usage.
If the material was stored at temperatures below +8° C crystals may form. The product is suitable for usage again after stirring or homogenizing.
Suitability tests accord. to valid standards and norms have to be carried out prior to application.

Estimating & Supply:

IBCs	1.100 kg
drums	200 kg
cans	25 kg

Cleaning & Equipment Maintenance:
Regular water flushing of dispensing equipment will prolong service life and reduce breakdowns.
Use REINIT-BM on internal metal surfaces subject to contact with concrete in concrete mixers, batch plants and truck mixers regularly to prevent concrete crust formations. Use REINIT-R to remove hardened concrete crusts.

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Storage & Shelf-life:
BETOCRETE C-16 has a shelf-life of 12 months when stored at +20° C in original, unopened containers, free from frost. Always re-cap to avoid dirt contamination.

Special Advice:
- Concrete modified with BETOCRETE C-16 may tend to effloresce depending on the composition.
- Aggregates must have a continous sieve-line.
- It is recommended to perform compatability tests with other admixtures as required.
- Concrete, modified with BETOCRETE C-16 must be produced, placed and finished accord. to valid norms.
- BETOCRETE C-16 is non corrosive and has no adverse effects on the re-inforcement.
- Protect surrounding areas against the influence of BETOCRETE C-16.
- It is rarely possible that BETOCRETE C-16 influences the setting of the concrete. Our product REMITARD 30 has proven as the most effective retarder.

Safety & Health:
Please adhere to valid European Materials Safety Data Sheet (MSDS)!