



## Technical Data Sheet

# BETOCRETE C-17 (BV)

Art.-No. 4 04217

## Crystalline waterproofing concrete plasticiser

### Primary Uses:

BETOCRETE C-17 (BV) 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.
- Complies with EN 934-2.
- Self-healing of later occurring static cracks up to 0.4 mm is possible.

### Primary Properties:

|                   |                        |
|-------------------|------------------------|
| Colour:           | clear blue             |
| Form:             | liquid                 |
| Density (+20° C): | 1.16 g/cm <sup>3</sup> |
| pH-value:         | 11                     |
| Processing temp.: | +8° C to +30° C        |

### Compliance:

Complies with EN 934-2:part 2; 2001.

### Dosage Range:

2.0 - 3.0 % by weight of cement, at least 7 kg per m<sup>3</sup> of concrete.

The final dosage quantity depends, among others, on the reactivity of the cement and the concrete recipe. This must be determined in suitability trials.

In case of overdosing, consult our local agent or our technical office.

### Dosage in ready-mix factory:

BETOCRETE C-17 (BV) 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-17 (BV) is dosed into the mixer drum and then thoroughly mixed for 3-5 minutes. Pour without delay.

### Instructions for Use:

The water-cement ratio shall not exceed 0.55.

Workability time is approx. 45 minutes after the addition of BETOCRETE C-17 (BV).

The addition of a concrete retarder may be necessary when using Portland Cement Type II or III. Suitability tests have to be carried out before usage.

When using BETOCRETE C-17 (BV) 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.

### 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

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formations. Use REINITER to remove hardened concrete crusts.

## **Storage & Shelf-life:**

BETOCRETE C-17 (BV) 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-17 (BV) may tend to effloresce depending on the mix design.
- Aggregates must have a continuous sieve-line.
- It is recommended to perform compatibility tests with other admixtures as required.
- When using CEM II or CEM III, the long-term efficiency of BETOCRETE C-17(BV) may suffer in individual cases. This is also valid for the use of hydraulic or pozzolanic concrete additives
- Concrete, modified with BETOCRETE C-17 (BV) must be produced, placed and finished accord. to valid norms.
- BETOCRETE C-17 (BV) is non corrosive and has no adverse effects on the re-inforcement.
- It is rarely possible that BETOCRETE C-17 (BV) influences the setting of the concrete. Our product REMITARD 30 has proven as the most effective retarder.
- The crack width limitations given by the planner or engineer must be followed under all circumstances. Other interpretations must be verified by qualification tests.
- In individual cases, BETOCRETE C-17(BV) can influence the setting properties of the concrete. Our product RUXOLITH T5 (VZ) has proven its efficiency.

## **Health & Safety:**

Please adhere to the European Safety Data Sheet (MSDS)!