



## Technical Data Sheet

# BETOCRETE®-D200

## Retarding water-reducing concrete admixture with workability retention

**Art.-No. 4 06652**

### Product Description:

BETOCRETE-D200 is a liquid, plasticizing & retarding concrete admixture formulated to improve workability, reduce permeability and improve durability. Once incorporated in the mix, BETOCRETE-D200 is adsorbed on the cement particles' surface inducing a powerful deflocculating property, effectively reducing the concrete mixing water demand and improving physical and mechanical properties of the resultant concrete. BETOCRETE-D200 is based on a blend of modified Lignosulphonates and organic modifiers designed with the main purpose of reducing workability loss in tropical climates.

### Primary Uses:

BETOCRETE-D200 is typically used to produce:

- Ready mix concrete
- Precast concrete
- All concrete works where good workability and increased waterproofing properties are required. Such as: swimming pools, sea walls, tunnels, bridges, basement, etc.
- Slip form concrete to prevent cold joint formation

### Advantages:

- Reduced mixing water while maintaining same workability.
- Improved workability & pumping properties.
- Set retardation enables longer transportation times in tropical climates.
- Improved physical & mechanical properties
- Improved surface finish
- Improved cohesion minimizes risks of segregation, bleeding and creep.
- Denser concrete improves waterproofing properties and protection of reinforcement steel against detrimental water-borne ion attack
- Water-based, non-flammable, non-toxic
- Chloride-free; suitable for pre-stressing
- Specially formulated for hot weather concreting

### Standards:

BETOCRETE-D200 is formulated to comply with all the requirements of:

- ASTM C- 494, Type D
- EN 943, Part 2, Tables 1 and 10

### Technical Properties:

Appearance:	Dark brown liquid
Specific Gravity:	1.185 ± 0.005 at 20° C
Chloride content:	Nil
Additional	
air-entrainment:	Less than 1 %
Water-reduction:	15- 20 % of mixing water
Setting Times:	No effect at the recommended dosages.
Permeability:	Reduces concrete porosity, improves waterproofing and durability.
Compressive strength:	Increased early and ultimate compressive strengths
Cohesion:	Improved cohesion reduces risk of segregation
Compatibility:	Compatible with all types of Portland cement including Sulfate Resisting Cement (SRC). Compatible with other SCHOMBURG admixtures when dispensed separately

### Dosage range

Dosage is influenced by cement type, mix design, quality of used materials, ambient temperatures and other specific requirements, so site trials should be carried to determine the optimum dosage.  
Dosage: typically 0.30% to 0.80% by the weight of total cementitious content (cement + replacers if used)  
(0.25 - 0.68 Litre for each 100 kg of cement)

### Dispensing:

BETOCRETE-D200 should be added with the last third of mixing water or immediately after complete mixing water addition. Do not add directly to the dry mix or cement. For proper administration an automatic dispenser shall be used.

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# BETOCRETE®-D200

## **Overdosing:**

An overdose of BETOCRETE-D200 may result - depending on dosage - in an increase of workability and extension of setting time. Overdosed concrete must be protected against direct sun light and water evaporation.

## **Curing:**

Concrete should be cured in accordance to applicable European Norms or ACI recommendations. Alternatively use any of the SCHOMBURG curing agents range; REMICURE.

## **Cleaning:**

Dispensers, hoses, equipment and tools can be easily cleaned with water. Spills must be contained and removed to industrial waste in accordance with local environmental laws. Please always consult local legislative authorities.

## **Estimating & supply**

Packaging:

BETOCRETE-D200 is supplied in 20, 210 and 1000 litres upon request.

Consumption:

0.3% to 0.8% by weight of cement depending on requirements. Site trials are always necessary to determine the optimum dosage.

The use of dispensing equipment is important to reduce errors and wastage, typically associated with manual dispensing.

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

BETOCRETE-D200 has a shelf-life of 12 months when original, unopened containers are stored in a dry and frost-free environment above 5° C.

## **Health and Safety:**

- BETOCRETE-D200 is non-flammable, non-toxic and non-corrosive.
- Spills should be washed with plenty of water.
- Local environmental regulations are to be considered.
- BETOCRETE-D200 is not dangerous during handling and transportation.