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Technical Data Sheet

BETOCRETE®-E100

Accelerating and water-reducing concrete admixture

Product Description:

BETOCRETE-E100 is a chloride-free, accelerating & water-reducing concrete admixture formulated to improve all the physical and mechanical properties during plastic and hardened concrete to produce high concrete properties with accelerated setting times as well as reducing: mixing water and permeability whilst improving surface finishes. BETOCRETE-E100 is based on high performance polymers that disperse cement particles (which tend to agglomerate) enabling the mixing water to perform more effectively. BETOCRETE-E100 contains materials that accelerate both initial and final setting times providing high early strengths.

Typical Applications:

BETOCRETE-E100 is formulated to be used as an accelerating and water-reducing concrete admixture in:

- Cold weather concreteing works.
- Plain and structural Concrete.
- Highway concreting.
- Concrete pipes, blocks..
- Pre-cast & Prestressed concrete.
- Bridges, ceilings, beams, floorings, etc.
- All similar concreteing where the removal of the formworks or the use of concrete quickly are required.

Product Features:

- Improved workability with water-reduction.
- Enables reduction of cement content.
- Accelerates both initial and final setting times.
- Accelerates early strengths.
- Eliminates the risk of segregation, bleeding and creep.
- Improved durability and reduced permeability.
- Improved surface finish.
- Water-based: non-flammable, non-toxic and does not contain any harmful ingredients.
- Chloride and nitrate free.

Standards:

BETOCRETE-E100 is formulated as an: Accelerating & water – reducing concrete admixture to comply with all the requirements of EN 934 Part 2 Tales 1, 12 as well as ASTM C-494 Type E.

Technical Properties:

Appearance: Dark brown liquid
Specific Gravity: 1.190 ± 0.005 at 20° C
Air entrainment: 0.50 % additional air

Chloride content: Nill

Setting times: Both initial and final setting

times will accelerated.

Permeability: Waterproofing properties

will be improved, so the resistance of water & water-borne salts will be increased

Water reduction: 15 % of mixing water can be

reduced. The durability will be also increased.

Compatibility: BETOCRETE-E 100 is

compatible with all types of Portland cements including Sulphate resisting Cement. It is compatible with all types of our admixtures, but each should be added separately.

Cohesion: The cohesion of the matrix

will be increased.

Mechanical Properties: All the mechanical properties:

compressive strength at early & ultimate strengths, flexural strengths, tensile strength will

be improved.

Dosage range:

The dosage will be influenced by the mix design, cement content & type, quality of used materials, ambient temperatures and the specific requirements. So site trials should be carried out to determine the accurate dosage.

Typical dosage varies between 0.6% and 3 % by the weight of cement.

Dispensing:

The accurate quantity should be measured by means of a suitable dispenser.

Normally, BETOCRETE-E100 should be added to the concrete with the mixing water to achieve the best results. It should not be added directly to the dry

BETOGRETE®-E100

cement or aggregate and should always be added to the wet mix conditions.

Overdosing:

Any serious overdosing will result in more workability, more air-entrainment and acceleration of setting times.

Curing:

The concrete after placing should be cured properly by suitable means. REMICURE Range can be used for this purpose.

Cleaning:

Clean the tools & equipment or spillages with normal water.

Packaging:

BETOCRETE-E100 is supplied in 20-liters, 210 liters, and 1000-liters upon request.

Storage & Shelf-life:

BETOCRETE-E100 shall be stored in normal conditions away from extreme temperatures and away from direct sunlight. BETOCRETE-E100 is valid for use for a period 24 months from the date of production and under proper storage.

Health and Safety:

- BETOCRETE-E100 is water-based, non-flammable, non-toxic, and does not contain any harmful ingredients.
- Any contamination of skin can be removed by washing with clean water.
- For disposal follow local regulations.