



HIGH RANGE SUPERPLASTICIZER FOR ULTRA HIGH PERFORMANCE CONCRETE



PRODUCT DESCRIPTION

Betofluid SC650 is a polycarboxylate based superplasticizer developed particularly for use in ultra high performance concrete to give high strength development of high specification grade concrete mixes. Betofluid SC650 is suitable for use in concrete mixes incorporating pozzolanic materials and microsilica.

FIELD OF APPLICATION

- Production of ultra high performance concrete
- During hot weather production of concrete with extended transportation or placing times
- Concrete requiring retained workability
- Concrete with low water binder ratio
- Concrete placing in congested steel reinforcement
- Depending on dosage rate used; high flow and selfcompacting concrete (SCC)
- Slim elements requiring a high standard of surface finish
- High performance / high strength concrete.

CHARACTERISTICS

- Powerful plasticising action
- Production of workable concrete at low w/b ratio
- Improved shrinkage and creep characteristics
- Excellent flowability resulting in minimal placing and compacting efforts
- Slower rate of carbonation ingress
- Cost effective, structurally economic
- Higher ultimate strengths allows greater flexibility for engineers to design
- Reduced surface defects so improving aesthetic appearance
- Durable concrete
- Does not contain chlorides or other steel corrosion promoting ingredients.

APPLICATION PROCEDURE

Betofluid SC650 is either added simultaneously with the water. Betofluid SC650 may be combined with many other products and is compatible with all types of cements and cementitious materials.

DOSAGE

0.5 - 1.6 % by weight of cement.
The retardation rate achieved is directly dependent on the dosage rate which in turn is influenced by quality of cement and aggregates, w/c ratio and temperatures. It is advisable to carry out trial mixes to finalize the optimum dosage rate.

PACKAGING

Betofluid SC650 is supplied in:
– 1 kg plastic can
– 5 kg plastic can
– 10 kg plastic can
– 1000 kg plastic can

SHELF LIFE-STORAGE

Original sealed packaging of this product is guaranteed to be of first quality for 12 months if stored in a dry area. The high humidity will reduce the shelf life of the bagged product.

SAFETY INSTRUCTION

BETOFLUID SC650 is not considered dangerous according to the current regulation regarding the classification of mixtures. It is recommended to wear gloves and goggles and to take the usual precautions taken for the handling of chemicals. For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.
PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA

Product identity	
Composition	modified polycarboxylate polymers
Appearance	Liquid
Colour	Yellow
Density	1,1 kg/Lt a +20°C
Equivalent sodium oxide	≤ 0,5%
Total chloride ion content	Free
pH-Value	approx. 4



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