

Technical Data Sheet

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Super Fluid4Crete®

High Range Water Reducer & Super Plasticizer:

Super Fluid4Crete® meets and exceeds all requirements of High Range Water Reducing Admixture (HWRR).

Complies European Norm: EN 934-2

Description:

Super Fluid4Crete® is a new generation super plasticizer for concrete in production of soft plastic concrete as well as state of art (structural), self compacting concrete (S.C.C) depending on the dose rate.

Also can be used for Pre-Cast Concrete.

Uses:

Super Fluid4Crete® is suitable for the production of high performance concrete. It facilitates extremely high water reduction, high flowability as well as internal cohesiveness.

Super Fluid4Crete® is used for the following types of concrete:

- Concrete with highest water reduction
- High strength concrete
- Self Compacting Concrete

Advantages:

The use of **Super Fluid4Crete®**, following concrete properties are obtained (due to surface absorption as well as sterical separation of the cement particles):

- **Water Reduction:** **Super Fluid4Crete®** can be dosed in small amounts to obtain water reduction from 10-15%, and will achieve water reduction up to 45% at high dosage rates.
Super Fluid4Crete® is suitable for all levels of water reduction.
- High workability, Flowability and Finishability
Extremely high water reduction can be achieved, hence resulting in high density as well as better impermeability of the concrete
- Improved shrinkage and creep behaviour
- Excellent Ultimate Strength Performance
Due to its high capability of water reduction, high ultimate strength can be obtained
- Improved Plastic Concrete properties
Excellent flowability also achieved resulting in reduced placing and compacting effort as well as reduction in rate of carbonation of the concrete
- Suitable for the production of Self Compacting Concrete

Application:

Dosage

Typical dosage for soft concrete production is 75ml-300ml per 50Kg of cement weight. For self compacting concrete 400ml-750ml per 50Kg cement.

Mixing

Super Fluid4Crete® is added to the initial batching water.

For optimum utilisation we recommend thorough mixing at a minimal wet mixing time of 60 seconds per cubic metre.

The addition of the remaining gauging water to fine tune concrete consistency may only be started after 2/3 of the wet mixing time has occurred to avoid surplus water in the concrete.

Application Method:

Concrete should be placed according to good concrete practices and proper curing procedures should take place.

Technical Data:

Form	Aqueous solution of modified polycarboxylate
Colour	Reddish Clear
Density	1.07 kg/litre approx.
pH Value	7.0 ± 1.0
Solid Content	± 30
Chloride Content	No
TEA Content	No
Packaging	5 Litres, 25 Litres, 220 Litres, Bulk deliveries
Safety:	
Flammability:	Incombustible
Toxicity:	No toxic or irritating
Regulation:	None
Recommendations:	None
Safety precautions:	None

Storage and shelf life:

Stored in the original sealed containers in a dry area, this product will keep for at least 18 months. Protect from direct sunlight and from frost.

Always, stir vigorously before use.

Please consult our "Technical Services".

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position.