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GANTRE 880

High Range Water Reducer / Super Plasticizer Concrete Admixtures (PCE based)

Identification of the Product

GANTRE 880 is Polycarboxylic ether based superplasticizer. This product has high early strength properties, additionally increase 7-28 days strengths and gives high slump increase with the same amount of water. In addition to this, it has remarkable slump retention effect.

Areas of Usage

In worksites, where the levelling problems may be faced, and where the necessary performance and economic solutions are required without risk of segregation
In slab and foundation concretes, curtain walls, girders and columns, in bridges, in architectural structures
In concrete elements with thin and dense reinforcements
For the production of high strength concrete

Standards

TS EN 934-2 Chart 3.1 and 3.2: High Range Water reducer / Superplasticizer Concrete Admixtures

Features / Advantages

In comparison to concrete without admixture, depending on the applied dosage, reduces water amount of the mixture min. **12%** without risk of segregation.
Provides significant increase in early and final strength depending on the dosage
Increases the durability of the concrete
Gives smoother surface after levelling
It is suitable to be used in reinforced concrete constructions
Chloride content is <0.1%. Thus, it is suitable to be used in reinforced concrete constructions.
Because of high water reduction, increases the resistance of the concrete against water and frost.

Technical Information

Chemical Content	Based on Polycarboxylic Ether
Density	1,06 – 1,10 kg/l
pH	4,0 – 6,0
Color	Brown
Total Chloride	Maximum % 0,1
Alkali	< 5

Package

Bulk, 1000 kg IBC, 220 kg barrel and 30 kg plastic bags

Storing Conditions / Shelf Life

It is proper to use the product in 12-months after the production date when it is stored in original, unopened and non-damaged packages in between +5°C and + 35°C.
It should be avoided from direct sun light and frost.



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If the additive is frosted under +5°C, it should be thawed by waiting at ambient temperature without using direct heating and mixed until it becomes homogeneous. Compressed air should not be used during this operation.

Dosage

Depending on performance expected from the concrete, it is used between **0,8 – 1,5%** of the binding material (cement, micro silica, fly ash) amount.

If dosed over **1,5%**, set retarding may be observed in winter conditions

In order to find optimum admixture dosage, it is recommended to make experimental mixtures in the laboratory because of the different water/cement ratio of the cement and aggregate used.

When it is required, **FOSROC IDEA Construction Chemicals Technical Support Unit** should be consulted

Application Method

After mixing binding material (cement, micro silica, fly ash) and aggregate homogeneously, only 50-60% of the total water which will be added to the mixture is added.

GANTRE 880 is added with the remaining water to the concrete mix.

In order to have the admixture spread homogeneously in the concrete and provide the required performance, the concrete should be mixed for 2-minutes or the period determined in laboratory tests.

Important Subjects

Admixture dosage and application method should be determined in laboratory experiments

The admixture should not be directly poured in dry mix.

Cure of the fresh concrete should be performed properly.

All equipment's should be cleaned after using them. Materials which became rigid and cured can only be taken out mechanically.

When used in higher dosages other than recommended, set retarding may be observed. In this case the surface of the concrete should be kept humid.

Notes

All technical information stated out in this product data sheet are based on laboratory experiments.

Values obtained in site applications may show changes because of environment and material conditions.

Health and Security Information

Users can get physical, ecological, toxicological information and recommendations related to carrying, storing and safe disposal of chemical products form (SDS) of the product.



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