

DARACEM[®] 19

Superplasticiser

Product Description

DARACEM[®] 19 is a high range water reducer, commonly referred to as a superplasticiser. It is an aqueous solution of a modified naphthalene sulfonate. It is a low viscosity liquid which has been formulated by the manufacturer for use as received. Daracem 19 contains no added chloride. Daracem 19 is formulated to comply with the following chemical admixture specifications for concrete: ASTM Designation C 494 as a Type A and Type F admixture; C 1017 as a Type I admixture; GB 8076-1997.

One litre of Daracem 19 weighs approximately 1.2kg.

Dispersion

Daracem 19 is a superior dispersing admixture having a marked capacity to disperse the cement agglomerates normally found in a cement-water suspension. The capability of Daracem 19, in this respect, exceeds that of normal water-reducing admixtures.

Product Advantages

- The low sodium content of Daracem 19 is particularly useful in applications where a limit on the equivalent sodium oxide of the mix design is specified.
- Daracem 19 can produce high slump flowable concrete at no loss in strength.
- Daracem 19 can produce low water-cement ratio concrete and therefore, high strengths.
- Daracem 19, in prestress/precast work, can be used to substantially reduce or eliminate the high energy requirements of external heat for accelerated curing.
- Daracem 19 concrete produced with Type I cement may be substituted for normal concrete produced with Type III cement to achieve early release strengths.
- Daracem 19 concrete, even at high slump, exhibits no significant segregation in comparison to concrete without a superplasticiser at the same slump.
- Daracem 19 aids in rapid discharge of concrete from truck mixers thereby reducing on the job time and improving mixer utilisation.

Compatibility with Other Admixtures

In concrete containing Daracem 19, the use of an air-entraining agent (such as DARAVAIR[®] or DAREX[®] AEA[®]) is recommended to provide suitable air void parameters for resistance against freeze-thaw attack.

Most water reducers or water-reducing retarders are compatible with Daracem 19 as long as they are separately added to the concrete. Pretesting of the concrete should be performed to optimise dosages and addition times of these admixtures.

Caution should be exercised when using Daracem 19 together with a retarder, as excessive retardation can occur if the admixture dosages are too high.

The admixtures should not be in contact with each other before they enter the concrete.

Dispensing Equipment

Please contact your local GCP representative for further information regarding the dispensing equipment for this product.



Applications

Daracem 19 produces concrete with extremely workable characteristics referred to as high slump, flowing concrete. Daracem 19 also allows concrete to be produced with very low water-cement ratios at low or normal slumps.

Daracem 19 is ideal for use in prestress, precast, bridge deck or any concrete where it is desired to keep the water-cement ratio to a minimum and still achieve the degree of workability necessary to provide easy placement and consolidation. Daracem 19 will also fluidise concrete making it ideal for tremie concreting or other applications where high slumps are desired.

Addition Rates

Addition rates of Daracem 19 can vary with type of application, but will normally range from 400 to 1,500mL / 100kg of cementitious material. In most instances the addition of 400 to 1,100mL / 100kg of cementitious material will be sufficient. At a given water-cement ratio, the slump required for placement can be controlled by varying the addition rate. Should job site conditions require using more than recommended addition rates, please consult your local GCP representative.

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