

DARACEM[®] 19A

Superplasticiser

Product Description

DARACEM[®] 19A 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[®] 19A is formulated to comply with specifications for Chemical Admixtures for concrete: AS 1478 Type HWR admixture. One litre of DARACEM[®] 19A weighs approximately 1.2kg \pm 0.02kg.

Product Advantages

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

Dispersion

DARACEM[®] 19A 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[®] 19A, in this respect, exceeds that of normal water-reducing admixtures.

Addition Rates

Addition rates of DARACEM[®] 19A can vary with type of application, but will normally range from 500 to 1,500mL / 100kg of cementitious material. In most instances the addition of 500 to 1,000mL / 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.

DARACEM[®] 19A contains no added chloride or triethanolamine.

Compatibility with Other Admixtures

In concrete containing DARACEM® 19A, the use of an air entraining agent (such as 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® 19A 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.

Applications

DARACEM® 19A produces concrete with extremely workable characteristics referred to as high slump, flowing concrete.

DARACEM® 19A allows concrete to be produced with very low watercement ratios at low or normal slumps.

DARACEM® 19A 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® 19A will also fluidise concrete, making it ideal for tremie concreting or other applications where high slumps are desired.

Dispensing Equipment

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

Packaging

DARACEM® 19A is available in bulk and in 205L drums. DARACEM® 19A contains no flammable ingredients. It will begin to freeze at approximately 0 °C, but will return to full strength after thawing and agitation. In storage and for proper dispensing, DARACEM® 19A should be maintained at temperatures above 0 °C.

Health and Safety

See DARACEM® 19A Material Safety Data Sheet or consult GCP Applied Technologies.

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