

DARATARD[®] 38

Water-reducing initial set retarder

Product Description

DARATARD[®]38 is a high performance, ready-to-use liquid admixture, formulated from selected purity lignosulphonates and modified polymers. Ingredients are factory premixed in exact proportions to minimise handling, eliminate mistakes and guesswork.

Daratard 38 is formulated to comply with the following chemical admixture specifications for concrete: ASTM C 494, Type B and D; BS 5075: Part 1; SS 320: 1987. One litre of Daratard 38 weighs approximately 1.14kg +/- 0.03kg.

Application

Daratard 38 retards the initial and final set of concrete. At the usual addition rate of 300mL / 100kg cementitious material it will extend the initial setting time of portland cement concrete by 2 to 3 hours at 21 °C. Daratard 38 is used wherever a delay in setting time is required to insure sufficient delivery, placement, vibration or compaction time, such as in:

- Hot Weather Concreting
- Transit Mix Concrete
- Prestressed Concrete

Daratard 38 is also used in special applications, as in bridge decks where it extends plastic characteristics of the concrete until progressive deflection resulting from increasing loads is completed.

Water-reducing Properties

Along with set retardation, Daratard 38 provides water-reduction (typically 8 to 12%) in a concrete mix. This water-reducing action of Daratard 38 produces greater plasticity and workability in the fresh concrete and the strength and permeability of the hardened concrete are measurably improved. Daratard 38 is designed for use on jobs where high temperatures make extended setting times desirable. It is recommended only when the primary purpose is to delay and control the setting time of concrete. When time and temperature are not major considerations, water-reducing admixtures from GCP Applied Technologies should be used. Please consult your local GCP representative for the most appropriate admixture for your project application.

Compatibility with Other Admixtures

Daratard 38 is compatible in concrete with all commercial airentraining admixtures, such as DARAVAIR[®] or DAREX[®] AEA[®]. Due to the slight air-entraining properties of Daratard 38 itself, the addition rate of Daravair may be reduced by about 25%. By combining the separate effects of air entrainment and dispersion, the water requirement of concrete may be reduced up to 15%. Each admixture should be added separately.

Dispensing Equipment

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



Addition Rates

Addition rates for Daratard 38 will typically range from 200 to 600mL / 100kg of cementitious material. The amount to be used will depend upon the degree of retardation required under job conditions. Longer setting times or higher temperatures will require higher addition rates. Conversely, the addition rate will be lower for shorter extensions of time.

Packaging

Daratard 38 is available in bulk and 205L drums. It contains no flammable ingredients. Daratard 38 will freeze at about -2°C , but will return to full strength after thawing and thorough agitation.

Health and Safety

See Daratard 38 Material Safety Data Sheet or consult GCP Applied Technologies.

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Last Updated: 2022-11-24

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