

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 airentaining 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.

gcpat.id | For technical information: asia.enq@gcpat.com

44 6624 2308 Delhi +91 124 402 8923 Indonesia +62 21 893 4260 Japan +81 3 5226 0231 Korea +82 32 820 0800 Malaysia +60 3 9074 6133 Philippines +63 49 549 7373 Singapore +65 6265 3033 Thailand +66 2 709 4470 Vietnam +84 8 3710 6168

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

Daratard, Daravair, Darex, AEA, WRDA and HYCOL are trademarks, which may be registered in the United States and/or other countries, of GCP Applied Technologies, Inc. This trademark list has been compiled using available published information as of the publication date and may not accurately reflect current trademark ownership or status.

© Copyright 2017 GCP Applied Technologies, Inc. All rights reserved.

GCP Applied Technologies Inc., 2325 Lakeview Parkway, Alpharetta, GA 30009, USA

PT GCP Applied Technologies Indonesia, Cikarang Industrial Estate Kav C-32, Cikarang, Bekasi 17530

This document is only current as of the last updated date stated below and is valid only for use in Indonesia. It is important that you always refer to the currently available information at the URL below to provide the most current product information at the time of use. Additional literature such as Contractor Manuals, Technical Bulletins, Detail Drawings and detailing recommendations and other relevant documents are also available on www.gcpat.id. Information found on other websites must not be relied upon, as they may not be up-to-date or applicable to the conditions in your location and we do not accept any responsibility for their content. If there are any conflicts or if you need more information, please contact GCP Customer Service.

Last Updated: 2025-05-19

gcpat.id/solutions/products/daratard-38