

DARACCEL[®] M

Set Accelerator

Product Description

DARACCEL[®]M is a liquid admixture is formulated for use in the manufacture of zero or low slump concrete products, where the process requires accelerated early strengths. This product contains calcium chloride as well as other additives to enhance the effect of the calcium chloride.

DARACCEL[®]M does not contribute to efflorescence.

Product Uses

DARACCEL[®]M admixture may be used in all zero or low slump concrete to provide increased “green” strength, and may reduce or eliminate the requirement for steam curing. The increased strength development can also allow for replacement of Type III cement with Type I or II cement.

Function

The components of DARACCEL[®]M will accelerate the chemical reactions between Portland cement and water. It speeds up the formation of CSH (calcium-silicate-hydrate) gel – the binder that holds aggregates together. Accelerated gel formation in turn shortens the setting time of the concrete and contributes to the development of higher early strengths.

DARACCEL[®]M admixture can be used in conjunction with the current curing cycle to assist with increased strengths, or may be used to develop equal strengths with reduced curing cycles. Depending upon ambient and curing conditions, in some cases steam curing may be eliminated entirely, thus reducing production costs associated with the curing process.

The effect of low temperature on setting time and early strength may be completely offset by the addition of DARACCEL[®]M admixture.

Application Information

DARACCEL[®]M admixture is compatible with most concrete admixtures. When multiple admixtures are used however, they must be added separately to the concrete mixture.

Companion products to DARACCEL[®]M designed for additional special qualities are: QUANTEC[®]PL-466 for smoother, denser surface textures, and QUANTEC[®]PL-477R for normal texture in low slump concrete block.

Product Advantages

- Increases “green” strength
- Reduces curing costs
- Improves compressive strengths
- Reduces cement costs
- Reduces culls

Addition Rates:

The typical addition rates of DARACCEL[®]M admixture is used at a rate of 8-40 oz/cwt (520-2600 mL/100 kg) of cementitious materials, including pozzolans. The addition rate is dependent upon the specific set of materials and the desired end properties.

Packaging

DARACCEL[®]M admixture is available in drums and returnable totes.

Health & Safety

All precautions defined on the SDS (Safety Data Sheet) for DARACCEL[®]M admixture must be followed.

Storage

DARACCEL[®]M admixture will begin to freeze at approximately 32 °F (0 °C), but will return to full strength after thawing and thorough mechanical agitation.

gcpat.com | North America Customer Service: 1 877-4AD-MIX1 (1 877-423-6491)

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.

DARACCEL and QUANTEC 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 2018 GCP Applied Technologies Inc. All rights reserved.

GCP Applied Technologies Inc., 62 Whittemore Avenue, Cambridge, MA 02140 USA.

In Canada, 294 Clements Road, West, Ajax, Ontario, Canada L1S 3C6.

This document is only current as of the last updated date stated below and is valid only for use in the United States. 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.com. 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: 2022-04-21

gcpat.com/solutions/products/daracel-m