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.

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