PRODUCT PROFILE

HICO 925
CALCIUM CHLORIDE

DESCRIPTION

HICO 925 is a calcium chloride solution that, when used at the proper proportions, will have a considerable positive effect on both the time of set and the strength gain of concrete.

SPECIFICATIONS

This product is produced to our standard specification for calcium chloride but is not guaranteed to ASTM D98 specifications.

APPLICATIONS

In Ready Mixed Concrete, HICO 925 is suitable for use as an accelerator in concrete where the more stringent ASTM D98 specification does not apply. (For concrete requiring an ASTM D98 qualified calcium chloride, HICO HB98 should be used).

HICO 925 is widely recognized for its ability to provide high early strength in the one to seven day time frame and improved strength at 28 days. This high early strength improvement makes HICO 925 particularly useful in concrete containing fly ash. The acceleration of the hydration process promotes the earlier release of calcium hydroxide from the cement.

This earlier one to seven day strength is seen in the compression, flexural and tensile areas and can have a positive effect on reducing the early cracking due to early stress.

In Precast Concrete, HICO 925 calcium chloride will help the precast concrete producer achieve the strength required for early removal and reuse of forms. This improved early strength may allow for less curing time and result in reduced inventory costs.

BENEFITS

- Improved workability
- Contributes to early strength gain
- Contributes to more efficient use of cement
- Promotes earlier form removal
- Greatly reduced time of set
- Reduced finishing costs

COMPATIBILITY

HICO 925 is compatible with most other admixtures (other admixtures must always by added separately). The superior dispersing qualities of HICO water reducing admixtures make more surface area of cement available for reaction with HICO 925 calcium chloride, producing a concrete with preferred finishing characteristics as well as providing a greater uniformity of set time and early strength gain. HICO 925 will also greatly enhance the advantages of using hot water in concrete.

HICO 925 should not be used in prestressed concrete or other applications where the specifications disallow the use of calcium chloride.

DISPENSING AND USAGE

It is suggested that the materials engineer base the dosage required on the concrete and ambient temperature at the time of batching and whether or not hot water is to be used. Quantities used will normally range from 1% to 2% by weight of cement. For accurate dosage information, please contact your technical sales representative.

HICO 925 should be added with water and thoroughly mixed throughout the batch. If additional job site water is added to increase the slump, it is important that sufficient additional mixing is done so as to assure consistent time of set throughout the concrete.

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