TECHNICAL DATA SHEET

Chryso Concrete Solutions

06/02/2025

Chryso®Darex® II

Air entraining admixture

DESCRIPTION

DAREX® II AEA is an air-entraining admixture designed to generate highly stable air void systems for increased protection against damage from freezing and thawing, severe weathering, or de-icer chemicals. It is a complex mixture of organic acid salts in an aqueous solution specifically formulated to provide uniform, predictable performance.

Meets or exceeds the requirements of ASTM C260 ***Standard Specifications for Air-Entraining Admixtures for Concrete***

ADVANTAGES

- Produces stable air voids, making it particularly useful for longer transit times
- Performs reliably & consistently across a wide spectrum of concrete materials
- Improves the durability of concrete to freeze-thaw cycles
- Facilitates entrainment in concretes that are typically difficult to air entrain

FIELDS OF APPLICATION

- All Cement Types
- Precast Concrete
- Post Tensioned & Prestressed Concrete
- Ready-Mix Concrete
- Concrete Exposed to Freeze-Thaw Cycles

Method of Use

Dosage

- DAREX® II AEA dosage rates can vary with the type of application. The addition rate can range between 0.5 oz/cwt and 5 oz/cwt (30 mL/100 kg and 320 mL/100 kg) of cementitious material.
- Optimal addition rates will depend on temperature, cement, sand gradation, and the use of extra fine materials such as fly ash and microsilica.
- Dosage rates may vary when used in conjunction with other CHRYSO® admixtures. The air-entraining capacity of DAREX® II AEA is usually increased when other concrete admixtures are contained in the concrete, particularly water-reducing and set-retarding admixtures. This may allow up to reduction in the amount of product required.
- Should conditions require using more than the recommended addition rates, please consult your CHRYSO ® representative.

Additional Usage Recommandations

- Formulated to perform across the entire spectrum of production mixes, it generates specification quality, freeze-thaw resistant air systems in concrete.
- Ideal for mixes with microsilica and with fly ash.

Implementation

- In general, it is recommended that DAREX® II AEA be added early in the batching sequence for optimum performance, preferably by “dribbling” on the sand.
- Product should not be added directly to heated water.
- Different sequencing may be used if local testing shows better performance.

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- Please see Technical Bulletin TB-0110, *Admixture Dispenser Discharge Line Location and Sequencing for Concrete Batching Operations* for further recommendations.
- Pretesting of the concrete mix should be performed before use and as conditions and materials change in order to assure compatibility with other admixtures, and to optimize dosage rates, addition times in the batch sequencing, and concrete performance.

Equipment

- A complete line of accurate, automatic dispensing equipment is available.

Complimentary Products

- DAREX® II AEA is compatible with most CHRYSO® admixtures as long as they are added separately to the concrete mix.

Performances

- Incorporates air into the concrete by the mechanics of mixing and stabilizing millions of discrete semi-microscopic bubbles.
- Promotes the mobility, or plasticity and workability of the concrete through air bubbles that act much like flexible ball bearings.
- Enables a reduction in mixing water with no loss of slump
- Optimizes coarse sand particle size distribution
- Aids placeability while minimizing bleeding, plastic shrinkage and segregation.
- Increases the volume of the concrete making it necessary to adjust the mix proportions to maintain the cement factor and yield.
- Produces impart resistance to the action of frost and de-icing salts as well as sulfate, sea and alkaline waters.

CHARACTERISTICS

Product Nature	Liquid
Color	Clear to amber
Shelf life	12 months
Cl^- Ions content	< 0,100 %
Specific gravity (25°C)	1,010
pH (25°C)	10,00

PRECAUTIONS

- Product will begin to freeze at approximately -30 °F (-1 °C), but will return to full capabilities after thawing and thorough agitation.
- Do not use pressurized air for agitation.

SAFETY

Prior to any use, please read carefully the Safety data Sheet.

PACKAGING

- Bulk
- 1000L Tote (275 gallons)
- 210 L (55 Gallons) Drum

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