TECHNICAL DATA SHEET

Chryso Concrete Solutions

08/29/2025

Chryso®Adva 127

High Range Water Reducing Admixture

DESCRIPTION

Chryso®Adva 127 superplasticizer is a polycarboxlate-based high-range water-reducing admixture specifically formulated to meet the needs of the concrete industry. It is a low viscosity liquid, which has been formulated by the manufacturer for use as received.

Chryso®Adva 127 superplasticizer is manufactured under closely controlled conditions to provide uniform, predictable performance and is formulated to comply with specifications for Chemical Admixtures for Concrete, ASTM Designation C494 as a Type F admixture. The product does not contain intentionally added calcium chloride. One gallon weighs approximately 9.0 lbs (1.1 kg/L).

Meets or exceeds the requirements of ASTM C494 Type F & AASHTO M194

ADVANTAGES

- Highly efficient, producing high slump concrete at very low dosages
- Provides a combination of slump life with near neutral set time
- Consistent air entrainment
- Consistent performance across cement chemistries
- Concrete finishes easily without stickiness, spotty set or tearing

FIELDS OF APPLICATION

While Chryso®Adva 127 superplasticizer is ideal for use in any concrete where it is desired to minimize the water/cementitious ratio yet maintain workability, it is primarily intended for use in ready-mix concrete, but may also be used in other applications such as precast concrete and self-consolidating concrete.

Method of Use

Dosage

- Chryso®Adva 127 superplasticizer addition rates can vary with type of application, but will normally range from 2 to 15 fl oz/100 lbs (130 to 980 mL/100 kg) of cementitious. In most instances, the addition of 3 to 6 fl oz/100 lbs (195 to 375 mL/100 kg) of cementitious will be sufficient. At a given water/cementitious ratio, the slump required for placement can be controlled by varying the addition rate. Should conditions require using more than the recommended addition rates, please consult your representative.
- Chryso®Adva 127 superplasticizer dosage requirements may also be affected by mix design, cementitious content and aggregate gradations.

Additional Usage Recommendations

- Chryso®Adva 127 superplasticizer produces concrete with extremely workable characteristics referred to as high slump. It also allows concrete to be produced with very low water/cement ratios for high strength.

Equipment

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

Complimentary Products

- Chryso®Adva 127 superplasticizer is compatible with most admixtures as long as they are added separately to the concrete mix.
- However, Chryso®Adva products are not recommended for use in concrete containing naphthalene-based admixtures including

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Chryso®Daracem 19 and Chryso®Daracem 100. In general, it is recommended that Chryso®Adva 127 superplasticizer be added to the concrete mix near the end of the batch sequence for optimum performance. Different sequencing may be used if local testing shows better performance. Please see Technical Bulletin TB-0110, *Admixture Dispenser Discharge Line Location and Sequencing for Concrete Batching Operations* for further recommendations. The product should not come in contact with any other admixture before or during batching.

- 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. For concrete that requires air entrainment, the use of an ASTM C260 air entraining agent (such as Chryso®Daravair or Chryso®Darex product lines) is recommended to provide suitable air void parameters for freezethaw resistance.

CHARACTERISTICS

PACKAGING

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

PRECAUTIONS

- It will begin to freeze at approximately 32°F (0°C), but will return to full strength after thawing and thorough agitation.
- In storage, and for proper dispensing, Chryso®Adva 127 superplasticizer should be maintained at temperatures above 32°F (0°C).

SAFETY

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

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