

Chryso® AdvaCast 593

High Range Water Reducing Admixture

DESCRIPTION

Chryso®AdvaCast 593 is a high efficiency, low addition rate polycarboxylate-based high-range water reducer designed for the production of a wide range of concrete mixes, from conventional to Self-Consolidating Concrete (SCC). It is designed to impart extreme workability without segregation to the concrete.

Meets or exceeds the requirements of ASTM C494 Type F. Chryso®AdvaCast 593 admixture is supplied as a ready-to-use liquid that weighs approximately 9.0 lbs/gal (1.1 kg/L). It does not contain intentionally added chlorides.

ADVANTAGES

- Excellent dosage efficiency, moisture control and air control
- Fast dispersion "wet-out"
- Enhanced concrete cohesiveness with low viscosity for rapid placement
- Superior finish on cast surfaces
- Excellent strength development

Method of Use

Dosage

- Chryso®AdvaCast 593 is an easy to dispense liquid admixture. Dosage rates can be adjusted to meet a wide spectrum of concrete performance requirements. Addition rates can vary from 2 to 10 fl oz/100 lbs (130 to 650 mL/100 kg) with the type of application, but will typically range from 3 to 6 fl oz/100 lbs (200 to 390 mL/100 kg) of cementitious.
- Should conditions require using more than the recommended addition rate, please consult your representative.
- Mix proportions, cementitious content, aggregate gradations and ambient conditions will affect admixture dosage requirements. If materials or conditions require using more than the recommended addition rates, or when developing mix designs for Self-Consolidating Concrete please consult your representative for more information and assistance.

Additional Usage Recommendations

- Chryso®AdvaCast 593 high-range water reducer that is formulated to impart improved workability to the concrete and to achieve high early compressive strength as required by the precast industry. It can be used for the production of Self-Consolidating Concrete in precast/prestressed applications and may be used in conventional concrete production.
- Chryso®AdvaCast 593 admixture may be used in low water-cementitious ratio applications where concrete stability and improved tolerance to concrete material variability are required.
- It may be used to produce concrete with very low water/cementitious ratios while maintaining normal levels of workability.

Equipment

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

Complimentary Products

- Chryso®AdvaCast 593 high-range water reducer is compatible with most admixtures as long as they are added separately to the concrete

The information contained in this technical data sheet is given to the best of our knowledge and the result from extensive testing - which were conducted in order to remain as objective as possible. However, it cannot, in any case, be considered as a warranty involving our liability in case of misuse or any different use of our products, other than those from the "Application" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users.

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mix. However, it is not recommended for use in concrete containing naphthalene-based admixtures including DARACEM® 19 and DARACEM® 100 and melamine-based admixtures including DARACEM® 65. In general, it is recommended that the product 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.

- 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 DARAVAIR® or DAREX® product lines) is recommended to provide suitable air void parameters for freeze-thaw resistance.

CHARACTERISTICS

Product Nature	Liquid
Color	Colourless to light yellow
Shelf life	12 months
Cl⁻ ions content	< 0,100 %
Specific gravity (25°C)	1,078
pH (25°C)	3,90

PRECAUTIONS

- It will freeze at approximately 32°F (0°C) but will return to full functionality after thawing and thorough mechanical agitation.

SAFETY

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

PACKAGING

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