

ADVA[®] Cast 585

High-range water-reducing admixture ASTM C494 Type A and F and ASTM C1017 Type I

Product Description

ADVA[®]Cast 585 admixture 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. It is designed to impart extreme workability without segregation to the concrete.

The product is supplied as a ready-to-use liquid that weighs approximately 9.0 lbs/gal (1.1 kg/L). ADVA[®] Cast 585 high-range water reducer does not contain intentionally added chlorides.

Product Advantages

- Excellent dosage efficiency, moisture control and air control
- Superior air entrainment control
- Excellent entrained air quality
- Enhanced concrete cohesiveness with low viscosity for rapid placement
- Superior finish on cast surfaces
- Enhanced strength development

Uses

ADVA[®]Cast 585 high-range water reducer 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 (SCC) in precast/prestressed applications and may also be used in conventional concrete production.

ADVA[®]Cast 585 high-range water reducer may be used in low water-cementitious ratio applications where concrete stability and improved tolerance to concrete material variability are required. The product may also be used to produce concrete with very low water/cementitious ratios while maintaining normal levels of workability

Addition Rates

ADVA[®]Cast 585 high-range water reducer is an easy to dispense liquid admixture. Dosage rates can be adjusted to meet a wide spectrum of concrete performance requirements. Addition rates for the product can generally vary from 2 to 12 fl oz/100 lbs (130 to 780 mL/100 kg) with the type of application, and has been used as high as 20 fl oz/100 lbs (1300 mL/100 kg) of cementitious materials in special cases. However, dosages will typically range from 3 to 6 fl oz/100 lbs (200 to 390 mL/100 kg) of cementitious materials. Should conditions require using more than the recommended addition rate, please consult your GCP Applied Technologies representative.

Mix proportions, cementitious content, aggregate gradations and ambient conditions will affect the product's 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 GCP Applied Technologies representative for more information and assistance.

Compatibility with Other Admixtures and Batch Sequencing

ADVA®Cast 585 high-range water reducer is compatible with most GCP admixtures as long as they are added separately to the concrete mix. However, ADVA®products are not recommended for use in concrete containing naphthalene-based admixtures including DARACEM®19 and DARACEM®100. In general, it is recommended that ADVA®Cast 585 high-range water reducer 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 GCP 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. Please consult your GCP Applied Technologies representative for guidance.

Packaging & Handling

ADVA®Cast 585 is available in bulk, delivered by metered trucks, in totes and drums. The product will freeze at approximately 32 °F (0 °C) but will return to full functionality after thawing and thorough mechanical agitation.

Dispensing Equipment

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

ca.gcpat.com | North America customer service: 1-877-4AD-MIX (1-877-423-6491)

Australia 1800 855 525 New Zealand +64 9 448 1146 China Mainland +86 21 3158 2888 Hong Kong +852 2675 7898 India: Chennai +91 44 6624 2308 Delhi +91 124 402 8923 Indonesia +62 21 893 4260 Japan +81 3 5226 0231 Korea +82 32 820 0800 Malaysia +60 3 9074 6133 Philippines +63 49 549 7373 Singapore +65 6265 3033 Thailand +66 2 709 4470 Vietnam +84 8 3710 6168

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GCP Applied Technologies Inc., 62 Whittemore Avenue, Cambridge, MA 02140, USA

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Last Updated: 2018-12-12

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