

ADVA[®] Cast 209N

Polymer-based superplasticiser for high early strength in precast concrete

Product Description

ADVA[®]Cast 209N is a polymer-based, high range water-reducing admixture that is specially designed for producing superior high early strength concrete in precast applications.

Dispersion

ADVA Cast 209N is a superior dispersing admixture, having a marked capacity to disperse cement agglomerates normally found in a cement-water suspension. The capability of ADVA Cast 209N exceeds that of normal water-reducing admixtures (Type WR) and high range water reducers (Type HWR), resulting in lower dosages and better early strength and slump retention.

Product Advantages

- Superior Early Strength Enhancement — ADVA Cast 209N accelerates cement hydration at a very early stage. Together with the very efficient dispersion effect, ADVA Cast 209N achieves very high early strength for the production of precast structural elements.
- High Workability and Good Slump Retention — ADVA Cast 209N is ideal for precast applications, where high early strength is desired, and where high workability will aid faster placement with reasonable slump retention and improved mix consolidation.
- Superior Surface Finish — ADVA Cast 209N produces concrete with superior surface finish, without stickiness, tearing or spotty set characteristics.
- Superior Water Reduction — With up to 40% water reduction possible, ADVA Cast 209N is highly effective in low water-cement concrete, producing high strength and high early strength precast concrete.
- Optimise Precast Concrete Production — The very neutral set times of ADVA Cast 209N may reduce or eliminate the need for heat curing to achieve high early strength concrete. The earlier removal of forms leads to reduced cycle times, faster mould turnaround, reduced total costs and increased productivity.

Compatibility

ADVA Cast 209N is compatible with most water-reducing admixtures as well as specialty admixtures like accelerators, DCI[®]Corrosion Inhibitor, ECLIPSE[®]Shrinkage-Reducing Admixture and V-MAR[®]Rheology-Modifying Admixture. All admixtures should be separately added to the concrete. Pre-testing of the concrete should be performed to optimise dosages and addition sequence of these admixtures. ADVA Cast 209N should not be used with naphthalene-based products.

Dispensing Equipment

Please contact your local GCP representative for further information regarding the dispensing equipment for this product



Applications

ADVA Cast 209N produces concrete with high early strength for precast concrete elements, while at the same time achieving high workability for easy and fast placement of concrete. It also allows concrete to be produced with very low water-cement ratios in low to high slump ranges.

Addition Rates

Addition rates of ADVA Cast 209N can vary with type of applications, but will normally range from 250 to 1,200mL / 100kg of cementitious material. In most instances, the addition of 300 to 700mL / 100kg of cementitious material will be sufficient. Should conditions require using more than recommended addition rates, please consult your local GCP representative.

Packaging

ADVA Cast 209N is available in 205L pails and in bulk. ADVA Cast 209N contains no flammable ingredients.

Health and Safety

Please refer to ADVA Cast 209N Material Safety Data Sheet or consult GCP Applied Technologies.

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