

# ADVA<sup>®</sup> Cast DC 600

High early strength superplasticiser

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## Product Description

ADVA<sup>®</sup>Cast DC 600 is a polycarboxylic high range water-reducing admixture that is specially designed for producing superior high early strength concrete in precast applications. ADVA<sup>®</sup>Cast DC 600 has been designed for concrete that is made with very low water/cement ratios, i.e. Dry-cast Concrete. ADVA<sup>®</sup>Cast DC 600 contains no added chloride. It is formulated to comply with specifications for chemical admixtures for concrete: AS 1478 as a Type HWR.

One litre weighs approximately 1.060kg ± 0.02kg.

## Product Advantages

- Superior early strength enhancement
- Slump retention
- High workability
- Superior surface finish
- Superior water reduction
- Optimise precast concrete production

## Advantages

### Superior Early Strength Enhancement

ADVA<sup>®</sup>Cast DC 600 accelerates cement hydration at a very early stage. Together with the very efficient dispersion effect, ADVA<sup>®</sup>Cast DC 600 achieves very high early strength for the production of precast structural elements.

### Superior Surface Finish

ADVA<sup>®</sup>Cast DC 600 produces concrete with superior surface finish, without stickiness, tearing or spotty set characteristics.

### High Workability

ADVA<sup>®</sup>Cast DC 600 is ideal for precast applications, where high early strength is desired, and where high workability will aid faster placement and improved mix consolidation.

### Superior Water Reduction

With up to 30% water reduction possible, ADVA<sup>®</sup>Cast DC 600 is highly effective in low water-cement concrete, producing high early strength concrete.

## Dispensing Equipment

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

## Packaging

ADVA<sup>®</sup>Cast DC 600 is available in bulk.

ADVA<sup>®</sup>Cast DC 600 contains no flammable ingredients. It will begin to freeze at approximately 0 °C, but will return to full strength after thawing and thorough agitation.

In storage, and for proper dispensing, ADVA<sup>®</sup>Cast DC 600 should be maintained at temperatures above 0 °C.

## Uses

ADVA<sup>®</sup>Cast DC 600 produces concrete with high early strength for precast structural elements, while at the same time achieving high workability for easy and fast placement and consolidation. It also allows concrete to be produced with very low water-cement ratios in low to high slump ranges. Ideally suited for Dry-cast concrete.

## Optimise Precast Concrete Production

The accelerated set times of ADVA<sup>®</sup>Cast DC 600 may eliminate or minimise 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 costs and increased productivity.

## Addition Rates

Addition rates of ADVA<sup>®</sup>Cast DC 600 can vary with type of applications, but will normally range from 300 to 1,000mL / 100kg of cementitious material. In most instances, the addition of 400 to 800mL / 100kg of cementitious material will be sufficient. Should conditions require using more than recommended addition rates, please consult your local GCP representative.

## Compatibility

ADVA<sup>®</sup>Cast DC 600 is compatible with most water-reducing admixtures as well as specialty admixtures like accelerators, DCI<sup>®</sup> Corrosion Inhibitor, ECLIPSE<sup>®</sup> Shrinkage-Reducing Admixture and V-MAR<sup>®</sup> Rheology-Modifying Admixture.

However, it cannot be used in conjunction with DAREX<sup>®</sup> Super 20 or DARACEM<sup>®</sup>. All admixtures should be separately added to the concrete. Pretesting of the concrete should be performed to optimise dosages and addition sequence of these admixtures.

## Health and Safety

Read and understand the product label and Safety Data Sheet (SDS) if handling the product directly. All users should acquaint themselves with this information prior to working with the product and follow the precautionary statements. SDSs can be obtained by contacting your local GCP representative or office.

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