

ADVA[®] 152M

New polymer-based superplasticiser for durable, high performance concrete

Product Description

ADVA[®]152M is a new polycarboxylic high range water-reducing admixture. It is specially formulated to produce high slump, high workability concrete with increased strength and durability. ADVA[®]152M Superplasticiser contains no added chloride. One litre weighs approximately 1.07kg ± 0.02kg.

Dispersion

ADVA[®]152M Superplasticiser is a superior dispersing admixture having a marked capacity to disperse the cement agglomerates normally found in a cement-water suspension. This capability exceeds that of normal water-reducing admixtures, resulting in lower dosages and better control.

Product Advantages

- With up to 40% water reduction possible, ADVA[®] 152M is highly effective in low water-cement concrete, producing high strength or high early strength concrete.
- ADVA[®] 152M Superplasticiser provides a superior combination of long slump life with near neutral set time.
- ADVA[®] 152M Superplasticiser concrete, even at high slump, exhibits no significant segregation compared to concrete without a superplasticiser at the same slump. This makes it particularly effective in flowing concrete of self-leveling/self-compacting concrete.
- ADVA[®] 152M Superplasticiser is easily added to concrete mix water for rapid batching.
- ADVA[®] 152M Superplasticiser is highly efficient, producing high slump concrete at very low dosage with no loss in strength.

Uses

ADVA[®]152M Superplasticiser produces concrete with extreme workability characteristics for high slump, flowing concrete. It also allows concrete to be produced with very low water-cement ratios at low or normal slumps.

ADVA[®]152M Superplasticiser is ideal for use in any concrete where it is desired to keep the water-cement ratio to minimum and still achieve the degree of workability necessary to provide easy placement and consolidation. ADVA 152M Superplasticiser will also fluidise concrete making it ideal for tremie concreting or other applications where high slumps are desired.

Dispensing Equipment

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

Addition Rates

Addition rates of ADVA[®]152M Superplasticiser can vary with type of application, but will normally range from 400 to 1,800mL / 100 kg of cementitious material. In most instances the addition of 600 to 1,400mL /100kg of cementitious material will be sufficient. For best results, ADVA[®]152M Superplasticiser should be added to the initial mix water. At a given water/cement ratio, the slump required for placement can be controlled by varying the addition rate. Should job site conditions require using more than recommended addition rates, please consult your local GCP representative.

Compatibility

In concrete containing ADVA[®]152M Superplasticiser the use of an air-entraining agent (such as DARAVAIR[®] or DAREX[®] AEA[®]) is recommended to provide suitable air void parameters for resistance against freeze-thaw attack. Due to synergistic effects between ADVA[®]152M Superplasticiser and air-entraining agents, the quantity of air-entraining admixture added to concrete containing ADVA[®]152M Superplasticiser may be reduced. Please consult your local GCP representative for dosage guidance.

Most water reducers or water-reducing retarders are compatible with ADVA[®]152M Superplasticiser as long as they are separately added to the concrete. Caution should be exercised when using ADVA[®]152M Superplasticiser together with a retarder, as excessive retardation can occur if the admixture dosages are too high. Pretesting of the concrete should be performed to optimise dosages and addition sequence of these admixtures. The admixtures should not be in contact with each other before they enter the concrete.

Packaging

ADVA[®]152M Superplasticiser is available in bulk and in 205L drums. ADVA[®]152M Superplasticiser 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[®]152M Superplasticiser should be maintained at temperatures above 0°C.

Health and Safety

See ADVA[®]152M Material Safety Data Sheet or consult GCP Applied Technologies.

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