

# ADVA<sup>®</sup> 391

New generation admixture for performance enhancement of high quality concrete

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## Product Description

ADVA<sup>®</sup>391 is a new generation, high performance mid-range water reducer based on comb polymer technology. It is a ready-to-use liquid admixture with superior dispersing capacity for the cement particles in the concrete mix. This capability exceeds that of normal water-reducing admixtures, resulting in lower dosages and better control. ADVA 391 contains no added chloride. One litre weighs approximately 1.07kg ± 0.02kg.

ADVA 391 complies with the requirements of admixture specifications: SS 320: 1987. BS 5075: Part 3.

## Applications

Excellent slump control and slump retention are necessary properties of any high quality concrete. ADVA 391 is a tailor-made admixture that helps concrete achieve excellent slump retention for all ranges of design workability. ADVA 391 is extremely effective in enhancing workability and slump retention even in mid-slump concrete and concrete with manufactured sand (crush granite fines), where conventional admixtures have difficulties achieving these properties.

ADVA 391 is suitable for a wide range of quality concrete, from low to higher grade concrete, by adjusting addition rate. The use of ADVA superplasticiser can help to provide further water reduction when very low water-cement ratio is needed.

## Product Advantages

- Provides long slump life with controlled set times.
- Finishes easily without stickiness, tearing or spotty set characteristics.
- Less susceptible to segregation and bleeding.
- Highly efficient, producing desired slump concrete with no loss in strength.
- Quick and easy application to the concrete mix water for rapid batching.

## Compatibility with Other Admixtures

Most water reducers or water-reducing retarders are compatible with ADVA 391 as long as they are added separately to the concrete.

Caution should be exercised when using ADVA 391 with a retarder, as excessive retardation can occur if the admixture dosages are too high. Pre-testing of the concrete should be performed to optimise dosages and addition times of these admixtures. The admixtures should not be in contact with each other before they enter the concrete.

ADVA 391 is not compatible with DAREX<sup>®</sup>Super 20 and DARACEM<sup>®</sup>products.

## Dispensing Equipment

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



## Addition Rates

Addition rates of ADVA 391 can vary with type of application. Depending on the application, dosage rates can range from 600 to 2,000mL / 100kg of cementitious material. However, in most applications, 800 to 2,000mL / 100kg of cementitious material will be sufficient. For best results, ADVA 391 should be added with the 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.

## Packaging and Storage

ADVA 391 is available in bulk and in 205L drums. ADVA 391 contains no flammable ingredients.

In storage, and for proper dispensing, ADVA 391 should be stored under shelter and away from direct sunlight. Shelf life is six months from the date of delivery.

## Health and Safety

See ADVA 391 Material Safety Data Sheet or consult GCP Applied Technologies.

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Last Updated: 2022-11-24

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