

# ADVA<sup>®</sup> CAST 3030

Superplasticiser for high slump retention concrete (summer grade)

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## Product Description

ADVA XR 3030 is a new generation admixture formulated especially for the production of high slump retention ready-mixed concrete. ADVA XR 3030 is designed for a wide range of applications requiring high maintenance of workability over time. This feature is essential for pouring in hot climates, for long times of transport and/or of concrete pouring.

ADVA XR 3030 excellent high slump retention makes it ideal for the implementation of concrete in difficult conditions or for transport times of up to two hours.

ADVA XR 3030 is formulated by using a new generation of carboxylate polymers offering prepackaged concrete producers the advantages of the most advanced technology in the sector.

ADVA XR 3030 meets the requirements of the UNI EN 934-2 standard and is produced under strictly controlled conditions in order to ensure the uniformity of quality.

## Advantages

- ADVA XR 3030 can be employed to reduce water contents significantly, which will noticeably increase the compressive strength
- The concrete's impermeability and the durability of structures simultaneously improve
- Compared to other acrylic highly dispersing agents, ADVA XR 3030 has a low sensitivity to the chemical and mineralogical composition of cement. Consequently, this product has great flexibility of use for concrete plants
- ADVA XR 3030 is particularly essential for the production of high/ very high slump retention concrete that does not segregate and that requires excellent maintenance of workability over time
- It allows a better extension of workability compared to normal slump retention agents, this also applies to concrete and/or complicated executions
- Concrete that has been formulated correctly and blended with ADVA XR superplasticisers has high cohesivity. The use of ordinary mixtures is recommended for concrete that has to be pumped
- After the mixture has been adequately formulated, ADVA XR 3030 is suitable for the production of self compacting concrete with high maintenance of workability
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**TYPICAL PROPERTIES**

Appearance	Pale straw liquid
Specific Gravity (20 °C)	1.080 ± 0.02
Air Entrainment	1.0%

Chloride Content

Nil

## Method Of Use

ADVA XR 3030 is ready to use. It is recommended to add the admixture after the introduction of water and following the addition of cement materials.

After the introduction of the admixture, it is recommended to mix the concrete for at least 2 minutes at maximum speed in order to allow its effective dispersion in the concrete mixture.

### ADDITION RATES

Range

400 ml - 1500 ml per 100 kg cement

0.40% - 1.50% (v/w) by wt. of cement

As a guide to trials an addition rate of 0.60 - 0.80% volume by weight of cement is suggested.

For advice and assistance with trials we recommend that you consult GCP Applied Technologies.

It is therefore necessary to check its performance in the same worksite conditions in order to optimize the dosage and performance effects both on fresh and hardened concrete (e.g. cohesion, maintenance of workability, setting time, development of the initial resistance, final mechanical resistance, dimensional stability). For further information contact GCP's Technical Service Department.

## Compatibility with Cements

ADVA XR 3030 is compatible with all cements set forth in the UNI-ENV 197/1 Standard, and, in particular, with Portland cements, Portland composite cements, pozzolanic cements, blast furnace cements and limestone cements. This product is also compatible with concrete containing fly ash and/or silica fume

For use with combinations with special cements we recommend contacting GCP.

As per most highly dispersing agents, the achievable results depend on the quantity of product employed on the composition of the concrete and on the nature of its constituents.

## Compatibility with Other Admixtures

ADVA XR 3030 is compatible with all other concrete additives produced by GCP. However, it must not be blended with them before being introduced in the mixture as its performance could be altered in the presence of other chemical substances.

Should you have any doubts, contact GCP's Technical Service Department.

## Effects of Overdosing

In the event of accidental overdosing, the effects will be proportional to its level.

If the concrete is very workable, a large overdose could lead to segregation and eventually result in long delays in the concrete setting time. This is particularly true if the temperature is low or if sulphate resistant cement or blend cement is employed. Every time it is possible that overdosing has occurred, it is recommended to observe the fresh concrete carefully. Special attention should be given to cohesion and consistency before using the material.

## Dispensing

It is recommended to introduce the liquid additive by means of an automatic dispensing equipment.

GCP places at your disposal a complete range of dispensing equipment, which have been specifically developed for the correct use of the superplasticisers ADVA XR Series 3000.

## Health and Safety

For further information on Health and Safety matters regarding this product we recommend that you consult the relevant Safety Data Sheet from GCP Applied Technologies.

In line with general chemical handling precautions avoid contact with skin or eyes and protective gloves/goggles should be worn.

## Packaging and Storage

Store ADVA XR 3030 in a frost-free location. In case of freezing, heat the product and mix it to return it to its natural condition.

## Technical Service

Our Technical Service department of GCP Applied Technologies is available to assist you in the correct use of our performance chemicals.

## North America customer service: 1-877-4AD-MIX (1-877-423-6491)

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