

ADVA[®] XT5

Workability enhancing admixture

Product Description

ADVA[®] XT5 is a revolutionary advancement in time activated polycarboxylate-based technology.

This patent pending, consistence (slump and flow) enhancing admixture, when used in conjunction with many water reducers (standard, mid-range, or high-range), will significantly increase the duration of slump or flow retention.

ADVA[®] XT5 is manufactured under closely controlled conditions and formulated for use as received.

Advantages

- Flexible degree of slump retention through adaptable dosing
- Increases slump life with minimal impact on set times
- Better control of operational costs by adjusting the slump life retention on an “as needed” basis during the initial dosage adjustment
- Eliminates the need for re-tempering with water at the job site
- Improves consistence at job sites resulting in ease of placement

Typical Properties

ADVA [®] XT5	
Appearance	Straw - Amber liquid
Specific Gravity (20 °C)	1.064 - 1.084
Alkali Content (eq.Na ₂ O)	≤ 1.5
Chloride Content	Nil

Uses

ADVA[®] XT5 is specifically intended for use where extended workability with minimal time of setting extension is desired without compromising plastic or hardened concrete properties. ADVA[®] XT5 produces concrete with consistent slump properties while providing the degree of consistence necessary to provide easy placement and consolidation. Conventional high-range water reducers may not provide sufficient slump life for applications with unpredictable or long transportation and placement times. As a result, concrete may be re-tempered with water at a job site to achieve desired workability. The addition of ADVA[®] XT5 used in conjunction with water reducers eliminates the need for re-tempering at job sites to achieve the desired consistence.

Addition Rates

Addition rates of ADVA[®] XT5 can vary with the type of application and the desired slump specifications, but will range from 130 to 650 mL/100 kg) of cement as an extended slump life admixture. In most instances, the addition of 260 to 390 mL/100 kg of cement will be sufficient. At higher dosage rates, some water may have to be removed from the mix to maintain plastic concrete cohesion. GCP strongly recommends pretrial testing the concrete with ADVA[®] XT5 before production use to optimise dosage rates due to concrete materials, ambient conditions and project requirements that change over time. Please consult your GCP Applied Technologies representative for more information and assistance.

Compatibility with Other Admixtures and Batch Sequencing

ADVA[®] XT5 is compatible with most GCP admixtures as long as they are added separately to the concrete mix. In general, it is recommended that ADVA[®] XT5 be added to the concrete mix near the end of the batch sequence for optimum performance. Different sequencing may be used if local testing shows better performance. Pretesting of the concrete mix should be performed before use, as conditions and materials change in order to assure compatibility with other admixtures, and to optimise dosage rates, addition times in the batch sequencing and concrete performance. For concrete that requires air entrainment, the use of an air-entraining agent (such as DAREX[®] AE3 or DAREX[®] AE3P product lines) is recommended to provide suitable air void parameters for freeze-thaw resistance. Please consult your GCP Applied Technologies representative for guidance.

Packaging & Handling

ADVA[®] XT5 is available in bulk delivered by metered trucks, in totes and drums. ADVA[®] XT5 should be stored at temperatures above 0 °C and below 50 ° for proper dispensing and use. It will begin to freeze at 0 °C, but will return to full strength after thawing and thorough agitation.

Dispensing Equipment

It is preferable that ADVA[®] XT5 should be introduced into the mixer by means of automatic dispensing equipment.

Advice on dispensing can be obtained from GCP Applied Technologies.. should be introduced into the mixer by means of automatic dispensing equipment. Advice on dispensing can be obtained from GCP Applied Technologies.

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

gcpat.uk | Customer Service: Tel: 01925 855330 Fax: 01925 855350

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