

Adva® Flex

High Range Water Reducing Admixture

DESCRIPTION

Adva® Flex is a high-range water reducing admixture designed to enhance workability, extend slump retention, and optimize batching efficiency. It is ideal for ready-mix applications requiring flexible slump life management. This product features time-activated polycarboxylate technology, making it well-suited for demanding conditions where minimal impact on set time is desired.

Meets or exceeds the requirements of ASTM C494 Type A & F

NSF/ANSI/CAN 61 Certified Admixture

ADVANTAGES

- Improves batch plant efficiency by allowing rapid batching
- Enhances workability and placement without stickiness or tearing
- Increases operational flexibility with adjustable slump life
- Simplifies jobsite logistics by eliminating the need to retemper
- Supports performance in long haul and high-temperature conditions

FIELDS OF APPLICATION

- All Cement Types
- Ready-Mix Concrete
- Hot Weather Concrete
- Self-Consolidating Concrete
- High-Performance Concrete

Method of Use

Dosage

- Dosage rates vary based on cement type, mix design, aggregate properties, environmental conditions, and project requirements.
- The typical dosage range is:
 - **Conventional HRWR:** 4–14 fl oz/100 lbs (260–910 mL/100 kg)
 - **Extended Slump Life HRWR:** 8–12 fl oz/100 lbs (520–780 mL/100 kg)
- If conditions require using more than the recommended addition rates, please consult your Chryso® representative.

Implementation

- It is recommended that the product be added near the end of the batch sequence for optimum performance. Alternate sequencing may be used if testing shows improved results.
- Please see [Admixture Dispenser Discharge Line Location & Sequencing for Concrete Batching Operations](#) for more information on product implementation.
- Pretesting of the concrete mix should be performed before use and as conditions and materials change in order to assure compatibility with other admixtures, and to optimize dosage rates, addition times in the batch sequencing and concrete performance.

Equipment

- This product can be dispensed using a complete line of accurate and reliable dispensing equipment designed for integration into concrete batching systems.

Complimentary Products

- Adva® Flex is compatible with most Chryso® admixtures as long as they are added separately to the concrete mix.

The information contained in this technical data sheet is given to the best of our knowledge and the result from extensive testing - which were conducted in order to remain as objective as possible. However, it cannot, in any case, be considered as a warranty involving our liability in case of misuse or any different use of our products, other than those from the "Application" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users.

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- This product is not compatible with admixtures containing naphthalene or melamine-based ingredients, as these may negatively impact performance.
- For concrete that requires air entrainment, the use of an ASTM C260 air-entraining agent is recommended to ensure freeze-thaw resistance.

Performances

- Extends slump retention significantly at higher dosage rates without adversely affecting set time
- Maintains concrete cohesion when water is reduced for higher dosages
- Provides high slump concrete at very low water/cementitious ratios
- Reduces need for jobsite water addition, improving final strength consistency
- Optimizes plastic and hardened concrete performance in fluctuating conditions

CHARACTERISTICS

Product Nature	Liquid
Color	Light yellow
Shelf life	12 months
Cl⁻ Ions content	< 0,100 %
Specific gravity (25°C)	1,073
pH (25°C)	4,90

PACKAGING

- Bulk
- 1000L Tote (275 gallons)
- 210 L (55 Gallons) Drum

PRECAUTIONS

- Avoid prolonged exposure to temperatures below 32°F (0°C) or above 120°F (50°C), as extreme conditions may affect performance.
- If the product freezes, thaw and agitate thoroughly before use.
- Do not use direct heat to accelerate thawing.
- Do not use pressurized air for agitation.

SAFETY

Prior to any use, please read carefully the Safety Data Sheet.