

ADVA® 140 (M)

High Range Water Reducing Admixture

DESCRIPTION

ADVA® 140 (M) is a high-range water-reducing admixture based on polycarboxylate technology specifically formulated to meet the needs of the concrete industry.

Meets or exceeds the requirements of ASTM C494 Type A & F, and ASTM C1017 Type I.

ADVANTAGES

- Functions as both a high-range and mid-range water reducer, offering production flexibility.
- Maintains consistent air entrainment.
- Performs reliably & consistently across various cement chemistries.
- Provides a superior combination of long slump life & near-neutral set time.
- Finishes concrete easily without stickiness, spotty set, or tearing.

FIELDS OF APPLICATION

- All Cement Types
- Precast Concrete
- Ready-Mix Concrete
- Post Tensioned and Prestressed Concrete
- Self Consolidating Concrete (SCC)

Method of Use

Dosage

- ADVA® 140 (M) addition rates can vary with type of materials and application. The addition rate can range between 2 oz/cwt and 20 oz/cwt (130 mL/100 kg and 1300 mL/100 kg) of cement. Typical addition rates are:
 - High-range water reducer—9 to 16 oz/cwt (590 to 1040 mL/100 kg)
 - Mid-range water reducer—5 to 9 oz/cwt (325 to 590 mL/100 kg)
- Optimal addition rates will depend on other concrete mixture components, job conditions, and desired performance characteristics.
- At a given water/cementitious 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 CHRYSO® representative.

Additional Usage Recommendations

- Suitable for a wide variety of concrete applications, from high-slump, low water-to-cementitious ratio concrete requiring a high-range water reducer to flatwork in residential applications needing a mid-range water reducer.
- Ideal for use in any concrete where minimizing the water/cementitious ratio is desired while still achieving high strength and excellent workability for easy placement and consolidation.

Implementation

- In general, it is recommended that ADVA® 140 (M) 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.
- Please see [Technical Bulletin TB-0110](#), *Admixture Dispenser Discharge Line Location and Sequencing for Concrete Batching Operations* for further recommendations.
- 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.

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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Equipment

- A complete line of accurate, automatic dispensing equipment is available.

Complimentary Products

- ADVA® 140 (M) is compatible with most CHRYSO® admixtures as long as they are added separately to the concrete mix. However, ADVA® products are not recommended for use in concrete containing naphthalene based admixtures and melamine-based admixtures.
- For concrete that requires air entrainment, the use of an ASTM C260 air-entraining agent is recommended to provide suitable air void parameters for freeze-thaw resistance.

Performances

- Produces concrete with excellent workability characteristics for both high slump and moderate slump concrete.
- Fluidizes concrete, making it perfect for tremie concreting or other applications where high slumps are desired.

CHARACTERISTICS

Product Nature	Liquid
Color	Brown
Shelf life	12 months
Cl⁻ ions content	≤ 0,100 %
Specific gravity (25°C) in g/ml	1,040
pH (25°C)	4,50

PRECAUTIONS

- In storage, and for proper dispensing, product should not experience prolonged exposure below 32°F (0°C) nor above 132°F (55°C).
- Product will begin to freeze at approximately 32°F (0°C), but will return to full strength after thawing and thorough agitation.

SAFETY

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

PACKAGING

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