

# Adva® 190

## High Range Water Reducing Admixture

### DESCRIPTION

ADVA® 190 is a polycarboxylate-based high-range water-reducing admixture specifically formulated to meet the needs of the concrete industry.

#### Meets or exceeds the requirements:

- ASTM: C494 Type A, F and ASTM C1017
- AASHTO: M194, Type A, F
- NSF/ANSI/CAN 61 Certified Admixture

### ADVANTAGES

- Highly efficient, producing high slump concrete at very low dosages.
- Offers a combination of extended slump life & near-neutral set time.
- Maintains consistent air entrainment.
- Performs reliably & consistently across various cement chemistries.
- 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® 190 addition rates can vary with type of application, but will normally range from 3 to 15 fl oz/100 lbs (195 to 980 mL/100 kg) of cementitious.
- In most instances, the addition of 3 to 6 fl oz/100 lbs (195 to 375 mL/100 kg) of cementitious will be sufficient.
- At a given water/cementitious ratio, the slump required for placement can be controlled by varying the addition rate.
- Should conditions require using more than the recommended addition rates, please consult your CHRYSO® representative.

#### Additional Usage Recommendations

- Suitable for creating concrete with very low water/cement ratios for high strength.

#### Implementation

- In general, it is recommended that ADVA® 190 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.

#### Equipment

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

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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## Complimentary Products

- ADVA® 190 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 high slump concrete with extremely workable characteristics.

## CHARACTERISTICS

<b>Product Nature</b>	Liquid
<b>Color</b>	Yellow
<b>Shelf life</b>	9 months
<b>Cl<sup>-</sup> ions content</b>	< 0,100 %
<b>Specific gravity (25°C)</b>	1,078
<b>pH (25°C)</b>	4,70

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