

# Chryso® Optima 256 EMX

High Range Water Reducing Admixture

## DESCRIPTION

**CHRYSO®Fluid Optima 256 EMx** is a next-generation, high-range water-reducing admixture formulated with a proprietary polymer to improve concrete robustness & optimize the cost/performance ratio of the mix design.

Specifically designed for advanced ready-mix concrete applications, it offers extended slump retention and enhanced pumpability, ensuring optimal concrete quality and performance on-site.

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

## ADVANTAGES

- Improves high early & ultimate strength performance
- Reduces jobsite water additions
- Improves flowability
- Enables utilization of high volumes of pozzolans such as fly ash
- Promotes reduction of CO<sub>2</sub> emissions encouraged by LEED directives

## FIELDS OF APPLICATION

- All Cement Types
- Precast Concrete
- Ready-Mix Concrete
- Post Tensioned & Prestressed Concrete
- Self Consolidating Concrete (SCC)
- Very High Early Strength Concrete
- High SCM Replacement Mixes
- Segmental Retaining Wall (SRW)

## Method of Use

### Dosage

- CHRYSO®Fluid Optima 256 EMx addition rates can vary with the type of application. The addition rate can range between 2 fl. oz/cwt and 16 fl. oz/cwt (130 mL/100 kg and 1045 mL/100 kg) of cementitious material. Typical dosage rates are:
  - Type A: 2 to 7 fl. oz/cwt (130 to 457 mL/100 kg)
  - Type F: 5 to 16 fl. oz/cwt (326 to 1045 mL/100 kg)
- Optimal addition rates will depend on other concrete mixture components, job conditions, and desired performance characteristics.
- Dosage rates may vary when used in conjunction with other CHRYSO® admixtures.
- Should conditions require using more than the recommended addition rates, please consult your CHRYSO® representative.

### Implementation

- In general, it is recommended that CHRYSO®Fluid Optima 256 EMx be added with the initial water or, for optimum performance, on the wetted concrete. It should not be added with or on the dry cement.
- Different sequencing may be used if local testing shows better performance.
- 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. [www.chryso.com](http://www.chryso.com)

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### Complimentary Products

- CHRYSO®Fluid Optima 256 EMx is compatible with most CHRYSO® admixtures as long as they are added separately to the concrete mix. However, CHRYSO®Optima products are not recommended for use in concrete containing naphthalene based admixtures and melamine-based admixtures.

### CHARACTERISTICS

<b>Product Nature</b>	Liquid
<b>Color</b>	Green
<b>Shelf life</b>	12 months
<b>Cl<sup>-</sup> Ions content</b>	< 0,100 %
<b>Specific gravity (25°C)</b>	1,090 ± 0,000
<b>pH (25°C)</b>	4,50

This product does not contain any purposely added calcium chloride or other chloride based components. It will not promote or contribute to corrosion of reinforcing steel in concrete.

### PACKAGING

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

### PRECAUTIONS

- In storage, and for proper dispensing, product should not experience prolonged exposure below 40°F (5°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.