

# Chryso® Optima 1130

High Range Water Reducing Admixture

## DESCRIPTION

**Chryso® Optima 1130** is a high-performance water-reducing admixture based on *CHRYSO® Optima 1000 Technology*. It offers excellent water reduction and workability, extended pumpability, and slump retention, enabling the production of high-performance concrete for the most challenging jobsites.

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

## ADVANTAGES

- Extends slump life with minimal effect on set time and early strength
- Increases early & ultimate compressive and flexural strengths
- Provides uniform, normal-setting characteristics
- Improves workability & finishability
- Lowers viscosity (stickiness)
- Minimizes job site water additions

## FIELDS OF APPLICATION

- All Cement Types
- Ready-Mix Concrete
- High Early Strength Concrete
- Self Consolidating Concrete (SCC)

## Method of Use

### Dosage

- Chryso® Optima 1130 addition rates can vary with the type of application. The addition rate can range between 2 oz/cwt and 12 oz/cwt (130 mL/100 kg and 782 mL/100 kg) of cementitious material. Typical addition rates are:
  - Type A: 2 to 5 oz/cwt (130 to 326 mL/100 kg)
  - Type F: 4 to 12 oz/cwt (261 to 782 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.

### Additional Usage Recommendations

- Ideal for high-performance concrete projects due to its excellent water reduction capabilities.
- Suitable for challenging jobsites where maintaining concrete quality is essential, thanks to its extended pumpability and slump retention.
- Perfect for applications that demand enhanced workability and consistency, making it easier to handle and place concrete in complex structures.

### Implementation

- In general, it is recommended that Chryso® Optima 1130 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.

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

Chryso® Optima 1130 is compatible with most Chryso's 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.

### Performances

- Enhances concrete performance increasing early and ultimate compressive and flexural strengths, ensuring high-performance concrete.
- Improves workability by extending slump life with minimal effect on set time and early strength, and improving workability & finishability.
- Offers excellent water reduction and minimizes job site water additions, lowering viscosity and reducing stickiness.

## CHARACTERISTICS

Product Nature	Liquid
Color	Amber
Shelf life	12 months
Cl <sup>-</sup> ions content	< 0,100 %
Specific gravity (25°C)	1,070
pH (25°C)	3,50 ± 1,00

## PRECAUTIONS

- In storage, and for proper dispensing, product should not experience prolonged exposure below 34°F (1°C)
- Product will begin to freeze at approximately 34°F (1°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

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