

# CHRYSO® Optima 1311

High Range Water Reducing Admixture  
Enhanced Slump Retention

## DESCRIPTION

CHRYSO® Optima 1311 is a High-Performance Admixture that provides powerful water reduction along with great pumpability and extended slump retention. CHRYSO® Optima 1311 allows designing high-level performance concrete to meet the most challenging jobsites' requirements.

**Meets or exceeds the requirements of ASTM C-494 Type A and F**

## ADVANTAGES

- Highly extended slump life with minimal effect on setting time and early strength
- Increases compressive and flexural strengths at all ages
- Provides uniform, normal-setting characteristics
- Reduces viscosity, improves rheology and pumpability
- Reduces or eliminates the need for job site adjustments and tempering

## FIELDS OF APPLICATION

- High-Alkali Cements
- All Cement Types
- Ready Mix Concrete
- High Early Strength
- Self Consolidating Concrete (SCC)
- Extended Slump Retention

## METHOD OF USE

### Dosage

- The recommended dosage rate for CHRYSO® Optima 1311 is 2 to 5 oz/cwt (130 to 326 ml/100 kg) of cementitious material for a Type A and 4 to 16 oz/cw (261 to 1043 ml/100 kg) of cementitious material for a Type F
- CHRYSO® Optima 1311 can 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.
- Dosage rates may vary when used in conjunction with other CHRYSO admixtures.
- Trial mixes should be conducted to determine the dosage rate needed.
- Because local job conditions vary, please contact your local CHRYSO sales representative for further assistance if using the product outside the recommended dosage ranges.

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)

CHRYSO Inc. - 3958 Ruger Dr • Royse City • TX 75189 & PO Box 190 • Rockwall • TX 75087 Tél.:+1 (972) 772 6010

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## CHARACTERISTICS

<b>Product Nature</b>	Liquid
<b>Color</b>	Yellow-Amber
<b>Cl<sup>-</sup> Ions content</b>	≤ 0.100 %
<b>Specific gravity (25°C) in g/ml</b>	1.070
<b>pH (25°C)</b>	4.00

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 :

- 55 gallon drum (210 L)
- 264 gallon tote (1000 L)
- Bulk

## PRECAUTIONS

- CHRYSO® Optima 1311 should be stored at or above 34°F (1°C). If frozen, thaw and agitate thoroughly to return to its normal state before use.
- Do not use pressurized air for agitation.
- CHRYSO® Optima 1311 is compatible with most CHRYSO admixtures if they are added separately to the concrete mix.
- However, it is not recommended for use in concrete containing naphthalene-based admixtures including ProPel AG, or melamine-based admixtures.

## SAFETY

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

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