

# Chryso® Quad 842

Multi-Range Water Reducing Admixture

## DESCRIPTION

**Quad® 842** is a mid-range water reducer designed to enable the usage of locally sourced aggregates, reducing supply lead time, costs and improving the concrete CO<sub>2</sub> footprint. It is ideal for use with complex aggregates such as manufactured & lower gradation

sands, and clay contaminated materials. This product ensures effective binder dispersion, making it well-suited for materials with high fines content and/or swelling clay.

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

## ADVANTAGES

- Promotes use of high proportions of manufactured sand
- Enhances slump retention
- Improves workability & finishability
- Facilitates usage of sands with high amount of fines
- Provides excellent air control
- Enables water reduction with minimal set time impact
- Reduces cracking & shrinkage
- Increases early & ultimate compressive & flexural strengths

## FIELDS OF APPLICATION

- All Cement Types
- SCMs (Including Natural Pozzolan)
- Ready-Mix Concrete
- Manufactured Sand
- Sands with High Fines
- Self-Consolidated Concrete (SCC)

## Method of Use

### Dosage

- Dosage rates vary based on cement type, mix design, aggregate properties, environmental conditions, and project requirements.
- The typical dosage range is:
  - Type A: 2 to 10 fl. oz/cwt (130 to 652 mL/100 kg)
  - Type F: 6 to 20 fl. oz/cwt (391 to 1304 mL/100 kg)
- Dosage rates may vary when used in conjunction with other CHRYSO® admixtures.
- If conditions require using more than the recommended addition rates, please consult your Chryso® representative.

### Implementation

- It is recommended that the product be added with the initial water or wetted concrete for optimum performance. Different sequencing may be used if local testing shows better performance.
- Please see [Admixture Dispenser Discharge Line Location & Sequencing for Concrete Batching Operations](#) for more information on product implementation.
- 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

- This product can be automatically dispensed using a complete line of accurate and reliable dispensing equipment designed for seamless integration into concrete batching systems.

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

- Quad® 842 is compatible with most CHRYSO® admixtures as long as they are added separately to the concrete mix.
- This product is not recommended for use in concrete containing naphthalene-based or melamine-based admixtures.
- Pretesting is recommended to verify compatibility with all mix components and ensure desired performance outcomes.
- Consult your Chryso® representative for guidance on product combinations & compatibility.

### CHARACTERISTICS

<b>Product Nature</b>	Liquid
<b>Color</b>	Brown
<b>Shelf life</b>	12 months
<b>Cl<sup>-</sup> ions content</b>	≤ 0,100 %
<b>Specific gravity (25°C)</b>	1,050
<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.

### PRECAUTIONS

- Avoid prolonged exposure to temperatures below 40°F (5°C), as extreme conditions may affect product performance.
- If the product is exposed to freezing temperatures, gently thaw and agitate thoroughly before use.
- Do not use direct heat to accelerate thawing.
- Do not use pressurized air for agitation.

### SAFETY

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

### PACKAGING

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