

# DARAVAIR® 1000

Air entraining admixture

### DESCRIPTION

**DARAVAIR® 1000** is a high-grade saponified rosin based air-entraining admixture that provides freeze-thaw resistance, yield control and finishability performance across the full range of concrete mix designs. Chemically similar to vinsol-based products, but with increased purity and supply dependability.

### ADVANTAGES

- Produces rapid air build suitable for short mix cycles
- Performs reliably & consistently across a wide spectrum of mix designs
- Improves the durability of concrete to severe exposures

### FIELDS OF APPLICATION

- All Cement Types
- Precast Concrete
- Post Tensioned & Prestressed Concrete
- Ready-Mix Concrete
- Concrete Exposed to Freeze-Thaw Cycles

### Method of Use

#### Dosage

- DARAVAIR® 1000 dosage rates can vary with the type of application. The addition rate can range between 0.5 oz/cwt and 3 oz/cwt (30 mL/100 kg and 200 mL/100 kg) of cementitious material.
- Optimal addition rates will depend on temperature, cement, sand gradation, and the use of extra fine materials such as fly ash and microsilica.
- Dosage rates may vary when used in conjunction with other CHRYSO® admixtures. The air-entraining capacity of DARAVAIR® 1000 is usually increased when other concrete admixtures are contained in the concrete, particularly water-reducing admixtures and water-reducing retarders. This may allow up to ⅓ reduction in the amount of product required.
- Should conditions require using more than the recommended addition rates, please consult your CHRYSO® representative.

#### Additional Usage Recommendations

- Formulated to perform across the entire spectrum of production mixes, it generates specification quality, freeze-thaw resistant air systems in concrete.

#### Implementation

- In general, it is recommended that DARAVAIR® 1000 be added early in the batching sequence for optimum performance, preferably by "dribbling" on the sand.
- Product should not be added directly to heated water.
- 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.

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

- DARAVAIR® 1000 is compatible with most CHRYSO® admixtures as long as they are added separately to the concrete mix.

### Performances

- Incorporates air into the concrete by the mechanics of mixing and stabilizing millions of discrete semi-microscopic bubbles.
- Promotes the mobility, or plasticity and workability of the concrete through air bubbles that act much like flexible ball bearings.
- Enables a reduction in mixing water with no loss of slump
- Aids placeability while minimizing bleeding, plastic shrinkage and segregation.
- Increases the volume of the concrete making it necessary to adjust the mix proportions to maintain the cement factor and yield.
- Produces impart resistance to the action of frost and de-icing salts as well as sulfate, sea and alkaline waters.

### 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) in g/ml</b>	1,013
<b>pH (25°C)</b>	10,40

### PRECAUTIONS

- Product will begin to freeze at approximately -30 °F (-1 °C), but will return to full capabilities after thawing and thorough agitation.
- Do not use pressurized air for agitation.

### SAFETY

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

### PACKAGING

- Bulk
- 275 gallon tote
- 55 gallon drum