

ECLIPSE® FLOOR 200

Shrinkage Reducing Admixture

DESCRIPTION

ECLIPSE® Floor 200 is a liquid admixture designed to reduce drying shrinkage and curling, improving joint spacing, floor stability, and overall durability. It is ideal for indoor slab-on-grade concrete construction requiring extended joint spacings. This product

features potent air detrainment properties and should not be used with air-entrained concrete.

Meets or exceeds the requirements of ASTM C494 Type S

ADVANTAGES

- Reduces drying shrinkage and curling, enabling joint spacing
- Provides flatter floors with minimal defects
- Saves time and costly repairs
- Enhances durability, providing longer usable life

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 0.5 to 1.5 gal/yd³ (2.5 to 7.5 L/m³), although doses as low as 0.2 gal/yd³ (1 L/m³) and as high as 2.5 gal/yd³ (12.5 L/m³) have been used.
- This product reduces the surface tension of pore water. Its effectiveness depends on the concentration as a percentage of the mix water.
- The ideal dosage is typically 2.5 to 5% of the mix water. For mortar and paste, which have higher water content, this dosage guidance can help determine the best addition rates.
- The product itself contains no water but is added in high amounts and should be considered in the mixture design. In a standard concrete mix, 1.5 gal/yd³ (7.5 L/m³) of this product will affect the concrete's porosity and slump similarly to the same volume of water. It's recommended to replace an equal volume of water with this product in the mixture design.
- If conditions require using more than the recommended addition rates, please consult your Chryso® representative.

Additional Usage Recommendations

- This product is designed for indoor slab-on-grade construction and is suitable for concrete without entrained air, where controlling drying shrinkage and cracking is important. It can significantly increase joint spacings, resulting in flatter, more durable, and lower-maintenance floors. During concrete placement and finishing, small amounts of the product may volatilize and cause eye and throat irritation. Ensure adequate ventilation to prevent this irritation.

Implementation

- It is recommended that the product be added after the dry materials and most of the water for optimum performance. 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

- This product can be automatically dispensed using a complete line of accurate and reliable dispensing equipment designed for seamless integration into concrete batching systems.
- Consult your Chryso® representative for recommendations on appropriate equipment.

Complimentary Products

- ECLIPSE® Floor 200 is compatible with most Chryso® admixtures as long as they are added separately to the concrete mix, usually through the water holding tank discharge line.
- Although this product is compatible with air-entraining agents, it has air-detraining properties, making it difficult to entrain air in concrete.
- This product has slight retarding properties (set times are typically extended less than one hour). If used in combination with other products exhibiting retarding properties the net retardation may be more than the simple additive effect of the two products used separately.
- 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.

Performances

- **Drying Shrinkage of Concrete** - ECLIPSE® Floor 200 reduces the surface tension of water. With reduced surface tension, the force pulling in on the walls of the pores is reduced and the resultant shrinkage strain is reduced. With ECLIPSE® Floor 200 at a dosage of 1.5 gal/yd3 (7.5 L/m3) this effect results in as much as 80% at 28 days and up to 50% at one year or beyond.
- **Impact on Fresh Concrete Properties** - When substituted in a mixture design for an equivalent volume of water, ECLIPSE® Floor 200 has little or no effect on concrete slump. It does however have a slight retarding effect (typically less than one hour extension of set time, see section on compatibility) and will aid in extending slump life. ECLIPSE® Floor 200 is a potent air detrainer and will make it difficult to entrain air in concrete.
- **Impact on Hardened Concrete Properties** - The primary impact of ECLIPSE® Floor 200 is the reduction in drying shrinkage. The addition of ECLIPSE® Floor 200 will typically cause a reduction in concrete compressive strengths on the order of 10 to 15%. For established concrete mixtures where strength must be maintained, mid-range water reducers or superplasticizers may be used to cut water to offset the strength reduction of ECLIPSE® Floor 200, without compromising shrinkage reduction.

CHARACTERISTICS

Product Nature	Liquid
Color	Colourless to light yellow
Shelf life	12 months
Cl ⁻ Ions content	< 0,100 %
Specific gravity (25°C) in g/ml	0,922

PACKAGING

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

PRECAUTIONS

- **Flammability** - ECLIPSE® Floor 200 has a flash point of 209°F (98°C). This is substantially above the upper limit of 140°F (60°C) for classification as a flammable material and above the limit of 200°F (93°C) where DOT requirements would classify this as a combustible material. Nonetheless, this product must be treated with care and protected from excessive heat, open flame or sparks. For more information consult the SDS.

SAFETY

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