

Chryso® Dry-Block Mortar (formerly Dry-Block® Mortar)

Water Repellent for Mortar

DESCRIPTION

Chryso® Dry-Block Mortar Admixture, part of the Chryso® Dry-Block System, is formulated based on a patented technology. It is a liquid, integral water-repellent admixture for masonry mortar.

The wicking property, the amount of water absorbed by the masonry mortar is dramatically reduced when Chryso® Dry-Block Mortar Admixture is added at its recommended dosage rate. Chryso® Dry-Block Mortar Admixture is a requirement for all Chryso® Dry-Block System projects and no substitutions shall be allowed.

As an integral admixture, Chryso® Dry-Block Mortar Admixture provides water penetration resistance throughout the depth of the mortar joint. Chryso® Dry-Block Mortar Admixture's water-repellent properties will prevent the moisture from wicking through the mortar joint into the building's interior. Likewise, it will not be wicked back to the exterior carrying soluble salts that can cause efflorescence at the joints on the wall exterior.

ADVANTAGES

- Provides water-repellent mortar
- Minimizes efflorescence at the mortar joint
- Improves workability
- Packaged for easy job site use

FIELDS OF APPLICATION

- Chryso® Dry-Block Mortar Admixture contains workability agents to improve ease of placement with more efficient use of the mix water.
- Chryso® Dry-Block Mortar Admixture may reduce the total amount of water required to achieve a given level of workability.

Method of Use

Dosage

- SHAKE WELL BEFORE USE.
- For optimum performance, DRY-BLOCK® Mortar Admixture should be added at 16 - 24 oz/3 ft³ (5.5 - 8.5 L/m³) of mortar.
- In no case should it be used at less than 16 oz/3 ft³ (5.5 L/m³) of mortar. To achieve this dosage range, the recommended addition is 1qt. (1 L) of DRY-BLOCK Mortar Admixture per bag of Portland cement in cement/lime mortars or 0.5 qt.(0.5 L) per bag of masonry or mortar cement.
- This will typically ensure that the dosage will be in the range of 16 - 24 oz/3 ft³ (5.5 - 8.5 L/m³) of mortar. For bulk mortar systems add 16 oz (0.5 L) for every 3 ft³ of mortar produced.

Additional Usage Recommendations

- The Chryso® Dry-Block System has been successfully used on thousands of masonry structures to provide moisture control. It is the leading integral water repellent system on the market to address moisture penetration of CMU (concrete masonry units) and mortar.
- The Chryso® Dry-Block System consists of two separate admixtures. Chryso® Dry-Block Admixture is mixed throughout the concrete during manufacture of the CMU and Chryso® Dry-Block Mortar Admixture is added to the mortar. During the curing process, the admixtures within the CMU and mortar become an integral part of the cement matrix.
- These admixtures become locked into the CMU and mortar providing long lasting resistance to water penetration. Due to their unique formulations, Chryso® Dry-Block Admixture and Chryso® Dry-Block Mortar Admixture cannot be used interchangeably.

Implementation

- All excess mortar containing Chryso® Dry-Block Mortar Admixture should be removed from the face of the CMU as soon as possible. This is

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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important since standard methods for removing hardened mortar such as strong acids, sand blasting and high pressure cleaning are harmful to the masonry units and the mortar joints and are not recommended.

Process Component

- Mixing Procedure:
 - Agitate Chryso® Dry-Block Mortar Admixture before using. Chryso® Dry-Block Mortar Admixture should be added with the mix water prior to adding the cement and sand. It is important to reduce the initial water used in the mortar.
- Recommended mixing sequence:
 - Add 2/3 of the water to the mixer
 - Add Chryso® Dry-Block Mortar Admixture to the mixer
 - Add sand to the mixer
 - Add cement and lime to the mixer
 - Add additional water as necessary. Mix a minimum of 5 additional minutes after all materials have been added to the mixer
- *Note: Do not dilute Chryso® Dry-Block Mortar Admixture with large volumes of water; for example, in a 55 gallon drum, and use as "mixing water." This will render the admixture ineffective.

CHARACTERISTICS

Product Nature	Liquid
Color	Off-white
Shelf life	12 months
Cl ⁻ Ions content	< 0,100 %
pH (25°C)	5,20

PACKAGING

- 100 L drum

PRECAUTIONS

- Chryso® Dry-Block Mortar Admixture must be protected from freezing at temperatures of 32°F (0°C) and below, as the admixture is not usable once frozen
- Chryso® Dry-Block Mortar Admixture is not a substitute for good masonry practices such as proper curing, tooling and covering the wall at the end of each work session. Chryso® Dry-Block Mortar Admixture will not prevent hairline cracking. Proper techniques for protection during construction as well as proper curing techniques can be found in literature published by the International Masonry Industry All-Weather Council, CMHA, and the BIA.
- Chryso® Dry-Block Mortar Admixture provides water-repellent properties to cured mortar. If the mortar dries out before the desired properties are achieved, Chryso® Dry-Block Mortar Admixture's water-repellent properties will become active and subsequent hydration of the cement will be hindered.

SAFETY

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