

DRY-BRICK™

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Admixture for Masonry Mortar

Description

DRY-BRICK™ Mortar Admixture is formulated based on a patented technology. It is a liquid, integral water-repellent admixture for masonry mortar. When DRY-BRICK Mortar Admixture is added at its recommended dosage rate, the wicking property (the amount of water absorbed) of masonry mortar is dramatically reduced.

Product Uses

DRY-BRICK Mortar Admixture minimizes mortar efflorescence. By reducing the water in the wall system, there is less likelihood of soluble salts in the mortar being dissolved and brought to the surface as efflorescence. Reducing moisture penetration also lessens the likelihood of mold and mildew in or on the wall.

Product Function

As an integral admixture, DRY-BRICK Mortar Admixture provides water protection throughout the depth of the mortar joint. DRY-BRICK 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.

Application Information

DRY-BRICK Mortar Admixture contains workability agents to improve ease of placement and to more effectively use mix water. DRY-BRICK Mortar Admixture may reduce the total amount of water required to achieve a given level of workability.

Addition Rates:

SHAKE WELL BEFORE USE
The dosage rate for DRY-BRICK Mortar Admixture is approx. 1.0L (32 oz) bottle for each bag of Portland or blended cement and 0.5L (16 oz) for each bag of hydrated lime, masonry cement or mortar cement in the mortar mix. For pre-blended bags of Portland cement and lime — add approx. 1.0L (32 oz) per bag. For pre-blended bulk mortar — add approx. 0.5L (16 oz) for every 3 cu. ft of mortar produced.

Mixing Procedure: *Agitate DRY-BRICK Mortar Admixture before using. DRY-BRICK Mortar Admixture must 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.*

The recommended sequence for mixing mortar containing DRY-BRICK Mortar Admixture is:

1. Add 2/3 of the water to the mixer
2. Add the admixture to the mixer
3. Add sand to the mixer
4. Add cement and lime to the mixer
5. Add additional water as necessary
6. Mix a minimum of 5 additional minutes after all materials have been added to the mixer

Trial Batches: DRY-BRICK Mortar Admixture is compatible with other Grace mortar admixtures. Trial batches are recommended as detailed in ASTM C 780, using jobsite materials and expected jobsite climatic conditions to determine compatibility of materials and the necessary adjustments to the mix design for actual addition rates, workability, color and physical properties. All admixtures must be added to the mix separately.

Product Advantages

- Provides water-repellent mortar
- Minimizes efflorescence at the mortar joint
- Improves workability
- Maintains breathability
- Minimizes the occurrence of mold and mildew
- Packaged for easy jobsite use

When pigments are used to provide a specific color tone, trial batches are strongly recommended to ensure the desired color is developed.

Packaging and Shipping Weights:

DRY-BRICK Mortar Admixture weighs approximately 1 Kg/L (8.5 lbs/gal) DRY-BRICK Mortar Admixture is supplied in cases of twelve .95 L (32 oz.) bottles. Each case weighs approximately 13.6 kg (30 lbs). Admixture is also available in 208 L (55 gal) drums weighing 234 Kg (515 lbs).

Heath & Safety: All precautions defined on the MSDS (Material Safety Data Sheet) for DRY-BRICK Mortar Admixture must be followed.

Storage Information: DRY-BRICK Mortar Admixture is supplied as a free-flowing, milky white liquid. DRY-BRICK Mortar Admixture will freeze at 0° C (32° F). DRY-BRICK Mortar Admixture must be protected from freezing. Once frozen, it is unusable. DRY-BRICK Mortar Admixture has a shelf-life of 18 months from the date of manufacture. An expiration date is marked on the each outer carton of bottles.

Design Considerations

Surveys of architects and contractors reveal that masonry walls leak primarily through the mortar joints. The use of DRY-BRICK Mortar Admixture addresses the important issue of minimizing water penetration through the mortar joints.

Information on other design considerations for masonry wall systems, such as flashing, weeps, reinforcing and drainable in-core insulation can be obtained from Grace Construction Products, the NCMA (National Concrete Masonry Association) and the BIA (Brick Industry Association).

Mortar Joints: The water-repellency of mortar joints is a function of:

1. The ability of the mortar to resist water penetration and
2. The geometry of the mortar joint.

The use of DRY-BRICK Mortar Admixture and proper tooling, increases the watertight properties of the joint and provides resistance to water penetration. A well-tooled concave or vee joint profile compacts the mortar at the brick interface and has been shown to provide the greatest resistance to water penetration.

Concave or vee profile tooling is recommended whenever DRY-BRICK Mortar Admixture is used for exterior applications. Raked, flush, extruded, struck, beaded, weathered or other joint profiles have poor water resistance and are not recommended for exterior applications.

Cleaning: All excess mortar containing DRY-BRICK Mortar Admixture should be removed from the face of the masonry units as soon as possible. This is important, since standard methods for removing hardened mortar such as strong acids, overaggressive sand-blasting and high pressure cleaning are harmful to the masonry units and the mortar joints and are not recommended.

Precautions: DRY-BRICK 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. DRY-BRICK Mortar Admixture will not prevent cracking.

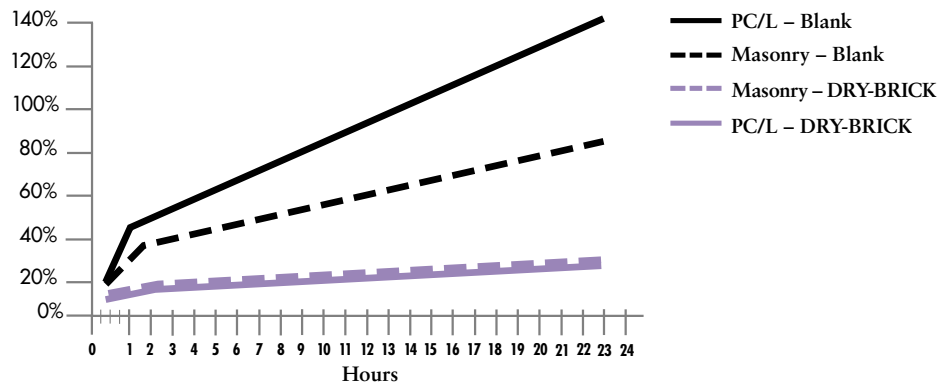
Proper techniques for protection during construction as well as proper curing techniques can be found in literature published by the International Masonry Industry All Weather Council, NCMA, BIA and the PCA (Portland Cement Association).

DRY-BRICK Mortar Admixture provides water-repellent properties to cured mortar. If the mortar dries out before the desired properties are achieved, DRY-BRICK Mortar Admixture's water-repellent properties will become active and subsequent hydration of the cement will be hindered.

The product specification for DRY-BRICK Admixture is available at www.graceconstruction.com. For further information, please contact your Grace Masonry Products Representative at 800-558-7066.

DRY-BRICK Test Data (Type S Mortars)

Type S Mortars – Water Uptake Rates



Web Visit our web site at: www.graceconstruction.com

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