



Krystol Mortar Admixture (KMA)TM

Product Code: K-309

DESCRIPTION

Krystol Mortar Admixture (KMA)TM is a specially designed chemical admixture for cementitious mortar. It contains Kryton's unique Krystol[®] technology that reacts with the cementitious materials in the mortar to form hydration crystals. These needle-like crystals block the capillary pores and micro-cracks within the mortar to dramatically reduce permeability and water absorption of mortar rendering over brick, block and other masonry walls.

KEY BENEFITS

- Provides water resistance without requiring a surface applied sealer
- Reduces the overall cost
- Improves resistance to cracking
- Improves adhesion
- Improves durability

FEATURES

- Contains proven Krystol technology
- Greater resistance to wind-driven rain
- Reduces water permeability
- Reduces water absorption
- Resists weathering—a better alternative to liquid applied sealers
- Easy to use—simply added to the mix
- Improves workability—reduces water demand
- Reduces shrinkage and cracking
- Self-seals hairline cracks
- Reactivates in the presence of moisture—even years later
- Provides improved resistance to waterborne chemicals such as sulfates and chlorides

TYPICAL APPLICATIONS

- Use to damp-proof mortar rendering on brick, block and other masonry walls
- Use to reduce permeability of plaster, stucco, and thin topping mixes
- Use to protect masonry mortar between bricks and blocks when they are assembled
- Use to reduce permeability of concrete bricks and blocks when they are manufactured

Trial batches are strongly recommended to assess the local plastic and hardened properties to determine appropriate mix designs.

PHYSICAL PROPERTIES

Appearance	Fine granular powder
Colour	Light Gray
Bulk density (g/cc)	0.7
PH (dissolved in water)	12

APPLICATION

KMA is a dry powder that is added directly to the mortar during mixing. Dose KMA at 2% by weight of cement – 1 kg KMA per 50 kg cement. Most KMA mixes will require less water than usual. For detailed application instructions, important precautions and safety information you must refer to Kryton Application Instruction 110, Use of Krystol Mortar Admixture.

CURING

- Proper curing is essential to achieve the performance and benefits of KMA.
- Wet curing the mortar with a fog mist spray, sprinkler or wet burlap for 3 to 7 days is recommended. Protect fresh applications from wind and direct sunlight.

SAFETY

This material is a dry powder that becomes caustic when mixed with water or perspiration. Avoid contact with skin or eyes. Avoid breathing dust. Wear long sleeves, safety goggles and impervious gloves. The safety precautions for KMA treated mortar are the same as for regular mortar. See the Material Safety Data Sheet for this product.

WARRANTY

Kryton International Inc. warrants that its products are free from manufacturers defects and, when applied in accordance with the current specification and application instructions will perform as so stated in its product literature. Because methods and conditions of use are beyond the control of Kryton, no guarantee, expressed or implied can be given as to the results of application. Liability of Kryton shall be limited to replacement of materials proved defective or, at its option, refund of the purchase price of the product.

* Limitations: Krystol is an effective system for rigid structures only and may not reliably seal cracks and joints that experience variable loading or repeated movement. Consult a Kryton representative for project specific recommendations.

PACKAGING

- 15 kg (33 lbs) pails

SHELF LIFE

KMA has a minimum shelf life of 24 months for sealed pails, and 4 months for open and properly re-sealed pails.



TEST RESULTS

WATER ABSORPTION

BS EN 480-5 Admixtures for Concrete, Mortar and Grout - Test Methods Part 5: Determination of Capillary Absorption: KMA achieved a 50% reduction in water absorption compared to the control.

WATER REDUCTION

KMA will reduce water demand for mortar mixtures as compared to a control mixture of equal workability. Following ASTM C270, tests show that KMA will reduce the water demand by approximately 5%. Water reduction will typically result in higher compressive strengths, reduced shrinking and reduced cracking. Results may vary depending on local mortar ingredients.

PERMEABILITY

DIN 1048: Part 5 – Mortar samples containing KMA were subjected to constant hydrostatic pressure of 0.5 MPa (72.5 psi) for a period of 10 days. Sample prevented the passage of water and no leakage or dampness was observed at any time.