

TECHNICAL DATA SHEET

Mortar Protection Admixture (Above Grade)



Krystol Mortar Admixture™ (KMA)

DESCRIPTION

Krystol Mortar Admixture™ (KMA) is a hydrophilic crystalline admixture in dry powdered form which is specifically formulated to provide long-term protection in rendering/plastering mortar, masonry mortar and concrete masonry units. KMA can often be used in place of externally applied surface sealers to protect against water and waterborne contaminants and can be easily incorporated into the existing mix design and application processes.

KMA contains Kryton's unique and proven Krystol® technology which reacts with un-hydrated cement particles and moisture to form millions of needle-shaped crystals, reducing both permeability and absorption of the mortar by filling the naturally occurring pores and voids in cementitious mortar.

Krystol technology helps to simplify installation and provide superior performance such as its ability to self-seal minor cracks.

FEATURES & BENEFITS

- Enhances durability resisting salt attacks, corrosion of embedded steel and water penetration
- Minimizes the chance of debonding
- Preserves aesthetics by resisting stains and discoloration caused by efflorescence, mold & mildew and rust
- Enhances workability for ease of use, improves adhesion, reduces rebound loss and reduces cracking
- Has exceptional strength
- Self-seals minor cracking
- Withstands water under pressure such as wind-driven rain
- Requires less labour
- Safe for contact with potable water

RECOMMENDED USES

Use KMA to provide permanent protection for:

- Masonry Mortar (i.e. mortar that goes between the masonry units)
- Concrete Masonry units (i.e. blocks when they are manufactured)
- Backing Mortar for tile work in wet areas
- Plastering mortar over brick work or other prepared substrates

PROPERTIES

Physical Properties	
Appearance	Grey powder
Bulk density g/cm ³	1.35
pH (dissolved in water)	12

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APPLICATION

KMA is a dry powder that is added directly to the cement mortar during mixing. Add KMA to concrete and mix to desired consistency. Most mixes will require less water than usual. Mix for at least 5 minutes after adding to the mixer. Install cement mortar as per IS guidelines. For increased damp-proofing performance apply mortar to a greater thickness. Continue occasional mixing as the material is being installed. Discard any material that shows signs of stiffening or setting. Do not wet-up by adding water.

CURING

Protect from rain until hardened. Protect from hot sun or wind for at least 24 hours. Cure the mortar application by misting with water repeatedly for 2 or more days.

DOSAGE

- Dosage is 0.8 - 2% of cement content
- 1 kg per 50 kg of cement

SAFETY

For professional use only. This product 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.

PACKAGING

KMA is available in 25 kg resealable pails and 1kg boxes.

SHELF LIFE

When stored in a dry enclosed area, KMA has a shelf life of 3 years for unopened pails.

WARRANTY

Kryton Buildmat Co. Pvt. Ltd. warrants that Kryton products are free from manufacturing defects and comply with the specifications given in their respective technical data sheet. Because conditions of use, such as site conditions, surface preparations, workmanship, concrete ingredients, weather, structural issues and other factors are beyond the control of Kryton, no warranty can be given as to the results of use. Purchaser agrees to seek the advice of qualified professionals and to determine for themselves the suitability of the products for their intended purpose and assumes all risks. Purchaser's sole remedy is limited to replacement of any product proven defective or at Kryton's option refund of the purchase price paid. THIS LIMITED WARRANTY CONTAINS THE ENTIRE OBLIGATION OF KRYTON. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. KRYTON SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. No representative of Kryton has the authority to make any representations or provision except as stated herein. Kryton reserves the right to change the properties of its products without notice.