

MasterPel[®] 240MA

Water-Repellent and Efflorescence-Control Mortar Admixture

Description

MasterPel 240MA admixture is a patented, specially blended emulsion additive used in the production of water penetration-resistant and efflorescence-controlled masonry mortar. Masonry mortar treated with MasterPel 240MA admixture demonstrates outstanding resistance to moisture migration and wind-driven rain as per ASTM E 514. MasterPel 240MA admixture has also been tested for bond strength as per ASTM C 1072.

Applications

Recommended for use in:

- Masonry mortar
- Portland cement stucco
- Masonry grout fill

Features

Integral part of a water-repellency system when masonry unit is treated with MasterPel 240 admixture.

- Outstanding water repellency
- Excellent efflorescence control
- Excellent mix flowability
- Optimized pigment dispersion
- Simple and ergonomic packaging

Benefits

- Reduces potential for primary and secondary efflorescence
- Reduces water absorption rate
- Improves water repellency characteristics
- Minimizes the need for post applied sealers
- Adds visual appeal
- Easy to handle and ship

Material Properties

Performance

pH	7-8
Specific Gravity	0.99
Viscosity	53 cP
Appearance	Off-white liquid

Guidelines for Use

Dosage: Use MasterPel 240MA admixture at a dosage of one 6 fl oz (177 mL) pouch per two bags or 2 ft³ (0.06 m³) of cementitious materials used in the mix. Consult your local sales representative if dosages outside the recommended range are being considered.

Mixing: Prepare masonry mortar according to ASTM C 270 and the following:

1. Mix all mortar ingredients until thoroughly blended and wetted to consistency which is somewhat drier than desired.
2. Add the proper amount of MasterPel 240MA admixture.
3. Continue mixing for an additional 1 to 1.5 minutes while adjusting the consistency with final mix water. Total mix time should be 3 to 5 minutes.
4. Prepared mortar should be placed within 2.5 hours after mixing during which retempering is allowed.

Product Notes

Design and Construction Considerations: Water tightness of the mortar joint is influenced by its ability to resist moisture wicking, block the flow of water and integrate with the associated masonry units. The addition of MasterPel 240MA admixture imparts water repellency throughout the mortar. However, proper joint tooling is critical to the performance of exterior walls. Both the National Concrete Masonry Association (NCMA) and The Brick Institute of America (BIA) recognize a concave-tooled mortar joint as being the least prone to allowing water penetration. Therefore, concave tooling is recommended whenever MasterPel 240MA admixture is used.

Preparatory Work: MasterPel 240MA Admixture-treated concrete masonry units are manufactured by producers using performance-optimized mix designs and qualified admixture dosages.

Methods: Design and construction details must observe all applicable design codes incorporating the recommendations of NCMA TEK 10-1A, Crack Control in Concrete Masonry Walls; TEK19-2A, Design for Dry Single –Wythe Concrete Masonry Walls; TEK 19-4A, Flashing Strategies For Concrete Masonry Walls; and TEK 19-5A, Flashing Details For Concrete Masonry Walls.

MasterPel 240MA admixture will not compensate for flaws in building design, materials, mix proportions, improper construction procedures or improper construction methods. Master Builders Solutions Construction Chemicals is not responsible for inappropriate use of MasterPel 240MA admixtures.

Proper use of MasterPel 240MA admixture must be observed.

Rake joints should not be permitted for water-repellent projects. Remove excess mortar promptly and clean any residue using procedures recommended in NCMA TEK 8-2A, Removal of Stains From Concrete Masonry.

Note: All MasterPel 240MA admixtures specified, water-repellent masonry projects must incorporate MasterPel 240MA admixture (or a Master Builders Solutions Construction Chemicals approved equivalent) in the accompanying masonry mortar to produce a moisture-resistant wall system. Failure to do so will result in compromised water repellency of the masonry structure and will be in violation of the MasterPel Admixture System guide specification.

Storage and Handling

Storage Temperature: MasterPel 240MA admixture must be stored at temperatures above 40 °F (4 °C) and below 105 °F (42 °C). MasterPel 240MA admixture should not be used after it freezes.

Shelf Life: MasterPel 240MA admixture has a minimum shelf life of 12 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life has been exceeded.

Packaging

The 6 fl oz (177 mL) pouches of MasterPel 240MA admixture are packaged in 24 pouches per carton and four cartons per mastercase for a total of 96 pouches.

The 96 pouches packaged in one mastercase will treat 192 bags of cement.

One carton of 24 pouches weighs approximately 9.5 lb (4.3 kg). One mastercase containing four cartons weighs approximately 38 lb (17 kg). The product is also available in 3 gal (11 L) pails.

Related Documents

Safety Data Sheets: MasterPel 240MA

Additional Information

For additional information on MasterPel 240MA admixture or its use in developing a concrete mixture with special performance characteristics, contact your local sales representative.

Master Builders Solutions, a brand of MBCC Group, is a global leader of innovative chemistry systems and formulations for construction, maintenance, repair and restoration of structures. The Admixture Systems business provides advanced products, solutions and expertise that improve durability, water resistance, energy efficiency, safety, sustainability and aesthetics of concrete structures, above and below ground, helping customers to achieve reduced operating costs, improved efficiency and enhanced finished products.

Utilizing worldwide resources, the Master Builders Solutions community of experts are passionate about providing solutions to challenges within all stages of construction, as well as the life cycle of a structure. At Master Builders Solutions we create sustainable solutions for construction around the globe.

Limited Warranty Notice

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