

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; TEK 19-2A, 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 creates technologies for the construction industry inspiring people to build better. We are active in ~40 countries and operate 35 production sites with over 1,600 employees. We develop, produce, and market high-quality chemical admixtures, as well as adjacent core technologies, to master the challenges of today and support a decarbonized future. Our people are pivotal and pair leading technologies and a strong brand heritage to surpass our customers' expectations and drive continuous value creation.

Limited Warranty Notice

Master Builders Solutions Admixtures US, LLC ("Master Builders Solutions") warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. MASTER BUILDERS SOLUTIONS MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of Master Builders Solutions. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. MASTER BUILDERS SOLUTIONS WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on Master Builders Solutions' present knowledge and experience. However, Master Builders Solutions assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. Master Builders Solutions reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.