

RHEOMIX®

RHEOPEL Mortar Admixture

Polymeric water repellent admixture for masonry mortar

DESCRIPTION/USES:

RHEOMIX® RHEOPEL Mortar Admixture is formulated for use in masonry mortar and for other cementitious materials such as grout and stucco. RHEOPEL Mortar Admixture uses *time-proven technology* to provide a highly effective means of preventing moisture from entering concrete masonry walls. RHEOPEL admixture-treated masonry mortar is particularly useful in single-wythe exterior wall applications, both above and below grade. When added to a grout or mortar mixture, RHEOPEL Mortar Admixture disperses evenly and reacts to form a water-repellent network throughout its mass. Polymers contained in RHEOPEL admixtures provide added resistance to wind-driven rain, superior water-repellent performance, and long-lasting service life.

ADVANTAGES:

RHEOPEL Mortar Admixture provides enhanced performance by:

- Providing lasting protection from moisture damage without the use of exterior-applied sealers
- Inhibiting the growth potential of mold and mildew
- *Potentially* reducing efflorescence*

WHERE TO USE:

RHEOPEL Mortar Admixture provides water repellency, reduced absorption, and water permeation resistance for applications such as:

- Masonry Mortar (Type S is recommended)
- Grout
- Stucco

MORTAR JOINT TOOLING:

Water repellency of the mortar joint is influenced by its ability to resist moisture "wicking" and to shed the flow of water. The addition of RHEOPEL Mortar Admixture imparts water repellency throughout the mix. However, joints must also be properly tooled and configured to achieve maximum performance. A concave-tooled mortar joint has been shown to produce the best results by both the National Concrete Masonry Association (NCMA) and Brick Institute of America (BIA). Therefore concave tooling is recommended whenever RHEOPEL Mortar Admixture is incorporated.

ADDITION RATE:

Add 16 fluid ounces (475 mL) of RHEOPEL Mortar Admixture to each bag or cubic foot (0.03 cubic meter) of cementitious materials used in the mix. Each bag of preblended masonry cement requires 16 fl oz (475 mL) of RHEOPEL Mortar Admixture.

DIRECTIONS FOR USE:

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 RHEOPEL Mortar Admixture.
- 3) Continue mixing for an additional 1 to 1-1/2 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 2-1/2 hours after initial mixing, during which retempering is allowed.

LIMITATIONS:

RHEOPEL admixtures will not compensate for flaws in building design, materials, mix proportions, improper production procedures, or improper construction methods. Master Builders is not responsible for inappropriate use of RHEOPEL admixtures. Proper masonry mortar proportioning and mixing per RHEOPEL label instructions **must** be followed.

*Efflorescence is a natural occurrence resulting from salts which solubilize in either initial mix water, or moisture from an external source, then surface during the evaporation process. RHEOPEL admixtures resist moisture penetration from external sources, and may prove helpful in preventing such salts from migrating in solution to masonry surfaces. However, the use of RHEOPEL Mortar Admixture alone does not ensure the prevention of efflorescence development.

Methods - Design and construction details must observe all applicable design codes, incorporating the recommendations of NCMA TEK 10-1: Design of Concrete Masonry for Crack Control, TEK 19-2: Design for Dry Concrete Masonry Walls, TEK 19-4: Flashing Concrete Masonry, and TEK 19-5: Use of Flashing in Concrete Masonry Walls

Note: RHEOPEL Mortar Admixture *must* be used in the masonry mortar per label instructions in order to produce a moisture penetration-resistant *wall system*. Failure to do so will result in compromised water repellency of the masonry structure.

Consult a local Master Builders representative for applicable design details and specifications.

PRECAUTIONS:

RHEOPEL Mortar Admixture must be protected from freezing. Proper use of RHEOPEL Mortar Admixture must be observed. Raked joints should not be permitted for RHEOPEL projects. Remove excess mortar promptly and clean any residue using procedures recommended in NCMA TEK 8-2: Removal of Stains from Concrete Masonry Walls. Avoid strong acids and high pressure washing. Cover the top courses of block at the end of each day to prevent water collection in cores.

PACKAGING:

RHEOMIX RHEOPEL Mortar Admixture is supplied in 32 fl oz (950 mL) bottles, packaged in cases of 12 (30 cases/pallet) for masonry mortar applications.

TEMPERATURE PRECAUTIONS:

RHEOPEL Mortar Admixture must be protected from freezing. Store at temperatures above 40 °F (4 °C) and below 118 °F (48 °C), in tightly-closed containers. RHEOPEL Mortar Admixtures are no longer effective if freezing has occurred.

For additional information on RHEOPEL admixtures, or on their use in developing a concrete block or cementitious mix with special performance characteristics, contact your local Master Builders representative.

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