Rheopel® Plus Mortar Admixture

Water-Repellent and Efflorescence-Control Mortar Admixture

Features
Integral part of a water-repellency system when masonry unit is treated with Rheopel Plus 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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>7-8</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.99</td>
</tr>
<tr>
<td>Viscosity</td>
<td>53 cps</td>
</tr>
<tr>
<td>Appearance</td>
<td>Off-white liquid</td>
</tr>
</tbody>
</table>

Guidelines for Use

Dosage: Use Rheopel Plus Mortar Admixture at a dosage of one 6 fl oz (177 mL) pouch per two bags or 2 ft³ (0.06 m³) of cementious 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 Rheopel Plus Mortar 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 Data: Rheopel® Plus Mortar Admixture

Storage and Handling

**Storage Temperature:** Rheopel Plus Mortar Admixture must be stored above 35 °F (2 °C) and protected from freezing. Rheopel Plus Mortar Admixture may be thawed to room temperature and used per the normal mixing instructions.

**Shelf Life:** Rheopel Plus Mortar 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 Rheopel Plus Mortar 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 gallon (11 L) pails.

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 Rheopel Plus Mortar 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 the least prone to allowing water penetration. Therefore, concave tooling is recommended whenever Rheopel Plus Mortar Admixture is used.

**Preparatory Work:** Rheopel Plus Admixture-treated concrete masonry units are manufactured by producers using performance-optimized mix designs and qualified admixture dosages.

**BASF Construction Chemicals**

Admixture Systems

www.masterbuilders.com

United States 23700 Chagrin Boulevard, Cleveland, Ohio 44122-5544 Tel: 800 628-9990 Fax: 216 839-8821

Canada 1800 Clark Boulevard, Brampton, Ontario L6T 4M7 Tel: 800 397-5862 Fax: 905 792-0651

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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.

Rheopel Plus Mortar Admixture will not compensate for flaws in building design, materials, mix proportions, improper construction procedures or improper construction methods. BASF Construction Chemicals is not responsible for inappropriate use of Rheopel Plus admixtures.

Proper use of Rheopel Plus Mortar 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 Rheopel Plus specified, water–repellent masonry projects must incorporate Rheopel Plus Mortar Admixture (or a BASF 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 Rheopel Admixture System guide specification.

Related Documents

Material Safety Data Sheet: Rheopel Plus Mortar Admixture.

Additional Information

For additional information on Rheopel Plus Mortar Admixture or its use in developing a concrete mixture with special performance characteristics, contact your local sales representative.

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