MasterPel® 210D
Powdered Masonry Water-Repellent Admixture

Description
MasterPel 210D admixture is a highly efficient powdered water-repellent admixture for use in producing water-repellent masonry mortar mixes. This water-redispersible silane-based water-repellent admixture contains a fine mineral filler that provides excellent water repellency. Masonry mortar treated with MasterPel 210D admixture demonstrates outstanding resistance to moisture migration and wind-driven rain as per ASTM E 514. MasterPel 210D admixture has also been tested for bond strength as per ASTM C 1072.

MasterPel 210D admixture is compatible with the MasterPel Water Repellent Admixture System, an innovative technology available from BASF.

Applications
Recommended for use in the masonry mortar mixes as part of the water-repellent system to increase water repellency.

Features
- Outstanding water repellency
- High efficiency (low dosage rate)
- Excellent ability to mix with water (water redispersible technology)
- Compatible with the MasterPel Water Repellent Admixture System from BASF

Benefits
- Improves water repellency characteristics
- Reduces water absorption rate
- Helps control efflorescence
- Minimizes the need for post-applied sealers

Performance Characteristics

Technical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Light beige powder</td>
</tr>
<tr>
<td>Bulk density</td>
<td>250 - 500 lb/yd³ (150 - 300 kg/m³)</td>
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Guidelines for Use

Dosage: Use MasterPel 210D admixture at a dosage range of 0.2% to 0.5% of total cementitious materials by mass. Consult your local sales representative if dosages outside the recommended range are being considered.

Mixing: Prepare masonry mortar in accordance with ASTM C 270. Mortars can be mixed by hand or machine. Hand mixing generates low shear forces compared to mechanical mixing. Hence, if the mortar is hand mixed, it should be remixed after a five-minute rest period.
MasterPel 210D

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 210D 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 210D admixture is used in the mortar.

**Preparatory Work:** Concrete masonry units treated with MasterPel 240 admixture are manufactured by producers using performance optimized mixture proportions 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 210D admixture will not compensate for flaws in building design, materials, mixture proportions, improper construction procedures or improper construction methods. BASF is not responsible for inappropriate use of MasterPel 210D admixture.

Rake joints should not be permitted for water-repellent masonry 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 water repellent admixture specified water-repellent masonry projects must incorporate MasterPel 240 Mortar Admixture or MasterPel 210D admixture (or other BASF-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 Water Repellent Admixture System guide specifications.

Storage and Handling

**Storage Temperature:** MasterPel 210D admixture should be stored at a temperature between 35 °F and 105 °F (2 °C and 40 °C) and should be protected from moisture. If the product is stored under pressure or in damaged/opened packaging, the powder may cake.

**Shelf Life:** MasterPel 210D admixture has a minimum shelf life of 18 months. Depending on the storage conditions, the shelf life may be greater than stated. Contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life has been exceeded.

**Packaging**

MasterPel 210D admixture is available in 33 lb (15 kg) bags. There are 30 bags on a pallet. A full pallet weighs 990 lb (450 kg).

Related Documents

Safety Data Sheets: MasterPel 210D admixture

Additional Information

For additional information on MasterPel 210D admixture or its use in developing a mortar mixture with special performance characteristics, contact your local sales representative.

*The Admixture Systems business of BASF’s Construction Chemicals division is the leading provider of solutions that improve placement, pumping, finishing, appearance and performance characteristics of specialty concrete used in the ready-mixed, precast, manufactured concrete products, underground construction and paving markets. For over 100 years we have offered reliable products and innovative technologies, and through the Master Builders Solutions brand, we are connected globally with experts from many fields to provide sustainable solutions for the construction industry.*
Limited Warranty Notice

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