

MasterPel[®] 200HD

Water-Repellent and Efflorescence Control Admixture for High-Density Applications

Description

MasterPel 200HD multi-purpose admixture is specially formulated and designed for water-repellent and efflorescence control in the high-density applications such as concrete paving stone productions. This unique formula is based on a novel silane chemistry that is different from the conventional water-repellent admixtures in the manufactured concrete product industry.

MasterPel 200HD admixture has been tested for an extended time in accordance with ASTM E 514, Standard Test Method for Water Penetration and Leakage Through Masonry, and has demonstrated excellent wind-driven rain resistance during the 72-hour testing period.

MasterPel 200HD admixture has been tested by AASHTO Product Evaluation Audit Solutions for uniformity and equivalence in accordance with ASTM C494 / AASHTO M194 Standard Specification for Chemical Admixtures for Concrete Level 3 testing.

Applications

Recommended for use in

- Paving stones
- Segmental retaining wall units
- Concrete roof tiles
- Concrete bricks
- Precast /prestressed concrete
- Concrete masonry units
- Ready-Mixed Concrete

Features

Masonry

- Unique formulation, specially designed for high-density applications
- Enhances color and reduces efflorescence potential
- Provides improved material flow and extrusion characteristics
- Superior water repellency versus conventional water-repellent admixtures

Concrete

- Reduces capillary absorption

Benefits

- Significantly reduces secondary efflorescence, improves primary efflorescence control
- Improves color vibrancy and pigment efficiency
- Increases compressive and flexural strengths
- Increases production rate
- Adds visual appeal

Guidelines for Use

Dosage:

Masonry Applications: Use MasterPel 200HD admixture at a dosage in the range of 2–6 fl oz/cwt (130–390 mL/100 kg) of cementitious materials depending on the desired benefits.

Concrete Applications: A typical dosage for MasterPel 200HD admixture is 5–6 fl oz/cwt (325–390 mL/100 kg) of cementitious materials for water repellency.

The dosage for optimum water repellency is determined through mix evaluation and testing procedures. Please consult with your local sales representative if dosages outside of the listed ranges are being considered.

To further improve the color efficiency and strength performance, the addition of a MasterPel high-performance plasticizing admixture is recommended.

Mixing: For maximum efficiency, add MasterPel 200HD admixture early in the sequencing procedure. Best results typically occur by adding the MasterPel 200HD admixture during the prewet process (with at least 70-80% of the required mix water), before adding the cementitious materials. Allow a minimum of 90 seconds of additional mixing time after all components have been dispensed.

Product Notes

Design and Construction Considerations: Design and construction details must observe all applicable design codes, incorporating the recommendations of the Concrete Masonry & Hardscapes Association (CMHA).

MasterPel 200HD admixture will not compensate for flaws in design, materials, mix proportions, improper production procedures or improper construction methods. Master Builders Solutions is not responsible for inappropriate use of MasterPel 200HD admixture.

Storage and Handling

Storage Temperature: MasterPel 200HD admixture must be stored at temperatures above 40 °F (4 °C) and below 105 °F (42 °C). MasterPel 200HD admixture should not be used after it freezes.

Shelf Life: When properly stored, MasterPel 200HD admixture has a shelf life of 12 months. Please contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life of MasterPel 200HD admixture has been exceeded.

Recirculation: Proper recirculation is required to maintain the integrity of the product. A low pressure pump is recommended for recirculation.

Do not use pressurized air to recirculate. Please consult your local sales representative for additional information on recirculation.

Packaging

MasterPel 200HD admixture is available in 5 gal (18.9 L) pails, 55 gal (208 L) drums and 275 gal (1041 L) totes.

Related Documents

Safety Data Sheets: MasterPel 200HD admixture

Additional Information

For additional information on MasterPel 200HD admixture or its use in developing concrete mixtures 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.

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