

Description

Rheopel Plus multi-purpose admixture is used in a variety of water-repellent and efflorescence control applications. This unique formula is based on a novel chemistry that is different from that of every conventional water-repellent admixture in the concrete industry.

With its flexible dosage range, Rheopel Plus admixture enables increased production rates of visually appealing manufactured concrete products and precast concrete products that have superior water repellency and secondary efflorescence control properties, increased strength performance, and improved color vibrancy. Rheopel Plus admixture also exhibits excellent wind-driven rain resistance and has achieved the highest rating per ASTM E 514.

Applications

Recommended for use in:

- Architectural block
- Single-wythe masonry construction
- Paving stones
- Segmental retaining wall units
- Concrete roof tile
- Precast /prestressed concrete

RHEOPEL® PLUS

Water-Repellent and Efflorescence Control Admixture

Features

- Unique formulation
- Part of block producer water-repellency certification program
- Contains components that enhance color and reduce efflorescence potential
- Provides improved material flow and extrusion characteristics

Benefits

- Superior water repellency versus conventional water-repellent admixtures
- 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: Use Rheopel Plus admixture at a dosage in the range of 1–5 fl oz/cwt (65–325 mL/100 kg) of cementitious material depending on the desired benefits.

- Efflorescence Control: Typically 1-5 fl oz/cwt (65-325 mL/100 kg) of cementitious material.
- Water Repellency: Typically 2-5 fl oz/cwt (130-325 mL/100 kg) of cementitious material. Optimum water-repellency dosage rates are determined through mix evaluation and testing procedures.

Please consult with your local BASF Construction Chemicals representative if dosages outside of the listed ranges are being considered.

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

Mixing: For maximum efficiency, add Rheopel Plus admixture after wetting of aggregates and cement, and after at least 75% of the final mix water has been added. Allow at least 90 seconds of additional mix time after Rheopel Plus admixture has been dispensed.

Product Notes

Design and Construction Considerations: 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 19-1: Water Repellents for Concrete Masonry Walls; TEK 19-2A: Design for Dry-Single-Wythe Concrete Masonry Walls; TEK 19-4A: Flashing Strategies for Concrete Masonry Walls; TEK 19-5A: Flashing Details for Concrete Masonry Walls.

Note: Rheopel Mortar Admixture must be used in the masonry mortar 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 your local BASF Construction Chemicals representative for applicable design details and specifications.

Product Data: RHEOPEL® PLUS

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

Proper block manufacturing methods, proper masonry mortar proportioning and mixing and proper use of Rheopel Plus admixture must be followed. Raked joints should not be permitted for water-repellent admixture system masonry projects. Remove excess mortar promptly and clean any residue using procedures recommended in NCMA TEK 8-2: Removal of Stains from Concrete Masonry.

Storage and Handling

Storage Temperature: Rheopel Plus admixture must be protected from hot and freezing temperatures. Rheopel Plus admixture must be stored at a material temperature between 40 °F (4 °C) and 105 °F (40 °C). Rheopel Plus admixture is not useable after it freezes.

Shelf Life: Rheopel Plus admixture has a minimum shelf life of 6 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your local BASF Construction Chemicals representative regarding suitability for use and dosage recommendations if the shelf life of Rheopel Plus admixture has been exceeded.

Packaging

Rheopel Plus admixture is available in 55 gal (208 L) drums and 275 gal (1040 L) totes.

Related Documents

Material Safety Data Sheets: Rheopel Plus admixture.

Packaging

For additional information on Rheopel Plus admixture, consult your local BASF Construction Chemicals representative.

The Admixture Systems business of BASF Construction Chemicals is a leading provider of innovative additives for specialty concrete used in the ready mix, precast, manufactured concrete products, underground construction and paving markets throughout the NAFTA region. The Company's respected Master Builders brand products are used to improve the placing, pumping, finishing, appearance and performance characteristics of concrete.

BASF Construction Chemicals, LLC
Admixture Systems

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