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Precast Concrete

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Concrete Unit Masonry

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Acrylic Water Repellents

MASTER[®]
» BUILDERS
SOLUTIONS

MasterPel[®] SP 5000

Plant Applied Surface Sealer for Masonry and Hardscape Concrete Products

Description

MasterPel SP 5000 is a ready-to-use, topically applied surface sealer that can be applied pre- or post-kiln. Using MasterPel SP 5000 surface sealer can improve aesthetics, ensure color stability over time, and provide a barrier to typical surface contaminants.

Applications

MasterPel SP 5000 surface sealer is recommended for use on all exterior manufactured concrete products where superior color fading resistance and efflorescence control are desired.

Features

- Topically Applied Water Repellency System
- Protects against the formation of efflorescence
- Enhances color vibrancy with a matte surface effect

Benefits

- Lower in-place costs as the product is already sealed during manufacture
- Surface contaminants removed with water
- Long lasting color and visual appeal

Performance Characteristics

MasterPel SP 5000 surface sealer is recommended for the treatment of all types of manufactured concrete products that use a semi-dry consistency, are compacted by vibration, and demolded immediately. MasterPel SP 5000 surface sealer provides enhanced color vibrancy, with a natural matte finish to the treated products.

Guidelines for Use

Application Rate: MasterPel SP 5000 surface sealer has a recommended application rate of 225–550 ft²/gal (5.25–13 m²/L) of surface area for most masonry and hardscape concrete products. Different application rates may be required in specific cases, depending on the specific applications and use. Because of variations in concrete materials, compaction ability, surface texture and/or applications, application rates outside the recommended range may be required. Consult your local sales representative for assistance in determining the proper application rates for optimum performance.

MasterPel SP 5000 surface sealer can be applied by spraying or rolling, immediately after compaction and stripping of the manufactured concrete products. It is also possible to apply MasterPel SP 5000 surface sealer after curing the manufactured concrete products. If applied in the production line after stripping, MasterPel SP 5000 surface sealer does not require any drying and the manufactured concrete products can be transferred directly to the curing chamber, in accordance with the standard production cycles.



Complete Solution for Manufactured Concrete Products

Total Solution: To produce interlocking concrete pavers and similar manufactured concrete products with enhanced water repellency, it is recommended to combine the surface application of MasterPel SP 5000 surface sealer along with the use of the following concrete admixtures in the fresh concrete matrix during production:

- MasterCast series of admixtures to improve workability and compaction of the concrete mixture
- MasterPel series of integral water repellent admixtures to enhance color and reduce efflorescence potential

Corrosivity – Non-Chloride, Non-Corrosive: Neither calcium chloride nor other chloride-based ingredients are used in the manufacture of MasterPel SP 5000 surface sealer. MasterPel SP 5000 surface sealer will neither initiate nor promote efflorescence in manufactured concrete products.

Compatibility: MasterPel SP 5000 surface sealer is compatible with Master Builders Solutions admixtures used in the concrete mixtures for manufactured concrete products.

Storage and Handling

Storage Temperature: MasterPel SP 5000 surface sealer should be stored between 40 °F and 104 °F (4 °C and 40 °C). Avoid direct exposure to sunlight. Failure to comply with the recommended storage conditions may result in premature degradation of the product or packaging. Do not let MasterPel SP 5000 surface sealer freeze. **Do not use pressurized air for agitation.**

Shelf Life: MasterPel SP 5000 surface sealer has a 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 application recommendations if the shelf life of MasterPel SP 5000 surface sealer has been exceeded.

Packaging

MasterPel SP 5000 surface sealer is supplied in 264 gal (1000 L) totes.

Related Documents

Safety Data Sheets: MasterPel SP 5000 surface sealer

Additional Information

For additional information on MasterPel SP 5000 surface sealer, or its use in developing manufactured concrete products 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.

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