



Super-Krete® International, Inc.

S-1300 Pene-Krete®

Product Description

Super-Krete Pene-Krete is a non-hazardous, spray applied, penetrating sealer for use on all portland cement substrates. Cross-linking chemicals cause Super-Krete Pene-Krete to react with the alkali in common portland cement, creating a crystal-like shield.

The growth of these crystal structures provides three main advantages to the user. First, when the crystal structures grow, they force, or purge, unwanted impurities out of the concrete. Second, because the capillaries now have crystals grown inside them they are no longer able to move water or water vapor efficiently through the slab. Because water vapor pressure is greatly restricted within the capillaries, and vapor pressure substantially reduced, coating success and performance is greatly enhanced. Third, these crystals tie the concrete matrix together, yielding more dense concrete. Dense concrete is much less susceptible to freeze/thaw cycling because the surface can never absorb enough water to become critically saturated. It does not allow enough water to be present in order to support ice crystal formation within the surface, thus eliminating freeze/thaw cycling.

The combination of clean, dense concrete along with reduced water vapor transmission rates provides the perfect surface to receive coatings. This shield increases the strength of new and existing concrete and other masonry substrates. This penetrating sealer will also reduce moisture vapor emissions without normally leaving a surface residue.

Uses

Super-Krete Pene-Krete is designed for use as an integral sealer, not as a topical sealer.

- ◆ *Moisture Vapor Emission Reduction:*

Reduces moisture emissions in many applications, within standards necessary to apply flooring goods over cementitious substrates. Recommended for use where water is present in substrates such as retaining walls, basement walls and floors, stucco and other masonry surfaces. See Super-Krete Application Specification S-10,000 Vapor Emission Treatment System. Super-Krete International, Inc. recommends that all Super-Krete applications are first prepared using Super-Krete Pene-Krete. Use Super-Krete Pene-Krete with any Super-Krete system when applying over any portland cement based substrates.

- ◆ *Curing Agent:*

Increases substrate strength while aiding cure for new concrete applications.

- ◆ *Protection:*

Increases coating life as much as 300%. Retards dusting and penetration of acids, oils and salts.

Surface Preparation

For detailed directions, see Super-Krete™ Surface Preparation Application Specification S-1.

1. Open any existing cracks using a diamond crack chasing blade.
2. Remove existing dirt, grime, laitance, and debris mechanically using a blower. Shot-blasting, sand-blasting or acid washing/neutralizing should be performed to achieve a profiled surface. All surfaces to receive coatings must be profiled and porous.
3. Clean and degrease the surface using Super-Krete Heavy Duty Degreaser.
For detailed directions, see Super-Krete Product Specification S-12,000 Heavy Duty Degreaser.
4. Apply surface using Super-Krete Pene-Krete.



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Application

Super-Krete Pene-Krete is shipped full strength. Do not dilute, use as is. Mix thoroughly before using.

1. Apply Super-Krete Pene-Krete by low pressure sprayer only Do not allow to puddle.
2. A second application is always required. Maximum of two applications.
3. Allow dampened surface to dry on the exterior prior to sealing.
4. Wait 24 hours after application, and remove surface residue with clean water. Allow surface to dry for 24 hours before applying Super-Krete cementitious coatings.

Continue only if no efflorescence is present.

For exterior applications, it is recommended that application of Super-Krete Pene-Krete be followed by an application of Super-Krete Clear Seal, Super-Krete Color Stain, or Super-Krete Top Sealer for added protection.

Coverage Rates

*Coverage rates will vary, these are approximations only, actual coverage will vary due to substrate conditions and surface porosity.

300 sq. ft. / gallon

Cure Time

28 Days

Shelf Life

Infinite

Packaging

- | | |
|--------------------|---------------|
| • 1 gallon bottles | 4 per case |
| • 5 gallon pails | 36 per pallet |
| • 55 gallon drums | 4 per pallet |

Test data available by request.

Limitations

Super-Krete products are to be applied only when surface temperatures are above 55 degrees F and rising. Super-Krete products are not to be applied when precipitation is expected within 24 hours following completion of application. Do not allow materials to freeze.

NOTE: Super-Krete International, Inc. believes this information to be true to the best of our knowledge and products are of the highest quality and uniform within manufacturing tolerances. Since no control is exercised over product use, no warranty, expressed or implied is made as to the effect of such use and no liability is assumed directly or indirectly, from their use. Buyers and users are encouraged to conduct their own test prior to application.

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