

SUPER-KRETE products and systems are warranted only when applied by persons Certified in writing by Super-Krete International, Inc. as Certified Super-Krete Applicators in accordance with manufacturer's guidelines on a structurally sound surface.

Description and Uses

It is highly recommended that PENE-KRETE be applied to every SUPER-KRETE application!

Always test substrate for moisture and PH. Surface should not be coated if the PSI is greater than 5 lbs.

Moisture Vapor Emission Testing and pH Testing

All concrete surfaces to be coated must first be testing for moisture emissions and pH Levels. In accordance with ASTM F1869-98 (covering the quantitative determination of the rate of moisture vapor emitted from below-, on-, and above-grade concrete floors), SUPER-KRETE recommends that a DOME TEST be used for reading moisture vapor emission levels through concrete slabs. (NOTE: DOME TEST is to be used indoors only) SUPER-KRETE requires that moisture readings do not exceed a reading of **5 psi** per 1,000 square feet/24 hours. Always take note of air space and conditions when performing the dome test, as it will have a significant effect on the final test results. Use of Pene-Krete S-1300 will significantly reduce moisture levels and almost always contain the moisture emissions into acceptable levels for coatings. In accordance with ASTM 104262-83 (determining alkalinity or acidity of concrete surfaces by etching prior to coatings), all concrete surfaces to be coated must also be tested for alkalinity levels using a paper pH test method. SUPER-KRETE requires that pH levels do not exceed that of 9 pH. SUPER-KRETE acknowledges that moisture emissions and excessive alkalinity within portland-cement based substrates is a leading cause of concrete disintegration and dusting and most coating delamination, and we highly recommend and require that all applicators of SUPER-KRETE products or any other coatings protect themselves from long-term liabilities that may be incurred by not performing such tests prior to coating applications.

PENE-KRETE is a clear non-hazardous, spray applied, penetrating agent for use on all Portland cement substrates. Cross-linking chemicals allow PENE-KRETE to react with the alkali in common Portland cement and create crystal structures within the capillaries of the concrete. 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 and moisture reading of less than 5 psi provides the perfect surface to receive coatings. PENE-KRETE will increase the strength of new and existing concrete as well as other masonry substrates.

Use PENE-KRETE for:

Moisture Vapor Emission Reduction

Reduces moisture vapor 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, brick and other masonry surfaces.

Curing Agent

Increases substrate strength while acting as a curing agent. A full 28 days should be allowed for cure time. The coating will be ready within 24-48 hours.

Protection

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

Coverage

Coverage is approximately 300 square feet per gallon depending upon surface porosity.

Application

Mix thoroughly before using. Do not dilute. Use as is. Apply by Hudson type sprayer. A second application may be required if dampness persists. Allow dampened surface to dry on the exterior prior to sealing. For best results, dampen the surface once an hour for 3 consecutive hours after the initial application.

General Information

PENE-KRETE is designed to react with alkali within Portland cement substrates to create a crystalline formation within the substrate, increasing the substrate strength and reducing wetness. For exterior applications, it is highly recommended that the application of PENE-KRETE be followed by a spray application of Super-Krete Sealer for added protection.

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. warrants this product to be of merchantable quality when used or applied by professional applicators approved by this company in strict accordance with manufacturer's specifications. SUPER-KRETE International, Inc. does not warrant this product for uses other than those intended. SUPER-KRETE International, Inc. does not make nor does it authorize any agent or representative to make any other warranty of MERCHANTABILITY OR FITNESS for purpose or any warranty, guarantee, or representation, express or implied, concerning this material except that it conforms to product specifications distributed by this company. SUPER-KRETE 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 accept this product under these conditions and assume the risk of any failure, injury, to person or property (including of buyer and user), death, loss or liability resulting from the handling, storage, or use of the product whether or not it is handled, stored, or used in accordance with directions or specifications. Any liability of this company to the buyer or user of this product is limited to the replacement value of the product. Buyers and users are encouraged to conduct their own test prior to application.