

SEAL-KRETE® Waterproofing Sealer

SEAL-KRETE, INC.

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PRODUCT DESCRIPTION

BASIC USE

SEAL-KRETE Waterproofing Sealer is a waterborne, no VOC, breathable, high-binding, clear acrylic-base penetrating sealer/primer, specially formulated for use on concrete, cement, masonry, and stucco surfaces. It may also be used on stone, brick, adobe, wood, plaster, limestone, coral, drywall, galvanized metal, grout, chalky surfaces, painted aluminum, vinyl siding, roof tiles, pottery, etc. It seals, waterproofs, primes, protects, and highlights the natural beauty in the colors of the materials on which it is used. It can be coated with elastomeric coatings, acrylic latex paints, oil-base paints, and mastics. It may be used below-grade as a first application penetrating sealer before topping with a waterproof coating that is recommended for below-grade application. SEAL-KRETE liquid is milky white during application, which assures complete coverage, but dries clear. It is environmentally safe, contains no VOCs (volatile organic compounds), is non-toxic, non-flammable, non-staining and is acid and salt resistant. It is fast drying and can be cleaned up with water before drying. It is easy to apply. A low-pressure sprayer is recommended for application. SEAL-KRETE can be used exterior and interior.

GENERAL USES

- SEAL-KRETE WPS can be used as a surface protector for graffiti by applying one flood coat to bare masonry surfaces. Contact SEAL-KRETE, Inc., to ensure proper use and application.
- SEAL-KRETE is used for the prevention of efflorescence, erosion, moisture, chalking, spalling, cracking, rotting, mildew, and other damaging effects due to water penetration.
- Waterproofs stucco, cement, and brick surfaces, thereby helping to prevent efflorescence.
- Can be used as a clear sealer/masonry conditioner on concrete block, concrete tilt-up panels, and stucco to reduce consumption of more expensive top-coat paints and insure a better bond.
- Seals and binds chalky surfaces, allowing them to be painted and insuring maximum bond for top-coat paints.
- Can be painted over with elastomeric coatings, acrylic latex, and oil-base paints.
- Can be used on newly poured concrete slabs after finishing and before curing as a sealer, waterproofing agent, and curing compound. Aids in the curing process and adds strength to the concrete. It will retard oil, grease, acids, salts, and fluids from penetrating the concrete. It is not slippery.
- Can be used on concrete tile roofs to preserve color and retard water penetration.
- Waterproofs adobe block and is compatible with adobe as a binder and sealer, preventing its deterioration.
- Can be used on existing concrete slabs after cleaning and etching, if required. Complete neutralization after acid etching is required.
- Can be used as a one coat dustproofer on bare cementitious surfaces. (See LIMITATIONS.)
- Can be used on galvanized metal as a primer/sealer to insure a better bond for painting. DO NOT clean galvanized metal with a quick-drying solvent cleaner before applying SEAL-KRETE. Use only soap and water or a 10% solution of chlorine and water or a water-based organic type

degreaser cleaner. SEAL-KRETE will not adhere to an oily or solvent-coated surface.

- Can be mixed with latex paint to improve weatherability. Mix 1 part SEAL-KRETE to 10 parts latex paint.
- SEAL-KRETE may be tinted for a stain and seal application. When tinting, use universal latex stain or paint color charts for desired colors. Tint with universal latex paint colors. For a tone stain, use SEAL-KRETE “as is” and mix 4 ounces of colorant to 1 gallon of SEAL-KRETE. Agitate prior to application. For a semi-transparent stain, mix 1 part tint base white exterior acrylic latex paint to 4 parts SEAL-KRETE, then tint to desired color. For a solid stain, mix 2 parts tint base white exterior acrylic latex paint to 3 parts SEAL-KRETE, then tint to desired color. For a primer/sealer/stain killer, mix 1 part SEAL-KRETE to 1 part exterior acrylic latex paint, then tint to desired color. It is recommended that a quart or less of the product be mixed and color added, then applied to test area and let dry, to be sure the desired color is obtained before application.
- SEAL-KRETE is an excellent primer/sealer for use under all types of wallpaper.
- Mastics and adhesives will adhere to SEAL-KRETE.
- SEAL-KRETE can be used as a clear primer over old weathered oil-base paint surfaces that are free of cracks, chips, peeling, etc., to insure maximum bond for top coating with acrylic/latex paints.
- SEAL-KRETE can be applied to vinyl siding as a primer/sealer application. It bonds extremely well to vinyl.
- SEAL-KRETE can be applied to painted aluminum (mobile homes, etc.) as a protectant/sealer. It will brighten and seal old painted aluminum.

COMPOSITION AND MATERIALS

SEAL-KRETE is 10% solids acrylic-based with water as its vehicle. It is very compatible with cementitious substrates. It penetrates deeply into the pores and forms an inner and outer seal, binding the sand and cement particles together while aiding in the natural curing process. SEAL-KRETE is non-toxic, non-flammable and has a very mild odor while soluble. Once applied, the film appearance has no odor. It is harmless to plants, animals, and humans.

SEAL-KRETE has excellent scrub resistance, outstanding freeze-thaw stability, excellent mechanical stability and excellent weatherability. SEAL-KRETE film is very hard and tough yet flexible, with a high tensile strength. Because SEAL-KRETE is a waterborne product, when the film is exposed to water, a water sheeting occurs, not a water beading.

LIMITATIONS/CAUTIONS

- **Do not** freeze. Store at room temperature above 32°F.
- **Do not** apply to glazed tile or glazed brick.
- **Do not** dilute SEAL-KRETE.
- **Do not** apply SEAL-KRETE when the threat of rain is imminent.
- When the relative humidity is 90% or more, allow an extra period of drying time (approximately 1 to 3 hours) before applications.
- **Do not** apply when the temperature of the surface to be coated is below 50°F, or when temperatures are expected to fall below this point.
- **Do not** apply SEAL-KRETE over newly applied latex paint until the paint has cured. A waiting period of 10 days minimum is required.
- SEAL-KRETE may become slightly tacky from excessive heat when applied on existing concrete slabs (driveways, garage floors, etc.) that are exposed to direct sunlight. SEAL-KRETE will not prevent tire marks from occurring.

- SEAL-KRETE may be used on below-grade wall applications only as a penetrating sealer/primer. It must be coated with an approved waterproof coating. SEAL-KRETE must not be used below-grade as the only waterproofing application, or where it is subject to hydrostatic pressure.
- Do not apply SEAL-KRETE to canvas.
- Back roll after spray applications.
- Additional coats will be required on low density decorative block and other very porous substrates. Contact SEAL-KRETE, Inc.'s Technical Hotline at (941) 967-1535 (M-F, 8am - 5pm EST) should this type surface be encountered.
- Not for use in ponds, tanks, pools, etc.
- Avoid ponding and standing water applications, wet substrates or applying too thick as blushing can occur.

SAFETY AND HEALTH DATA

SEAL-KRETE Waterproofing Sealer is non-flammable, non-toxic and is harmless to plants, animals, and humans in both the liquid and film properties.

SEAL-KRETE contains no VOCs and no petroleum distillates. According to a report on health hazard information put out by the U.S. Department of Health and Human Services and the U.S. Department of Labor, petroleum distillates affect the body if they are inhaled, come in contact with the eyes or skin, or are swallowed.

TECHNICAL DATA

TYPICAL PROPERTIES, TEST METHODS & TESTS

Florida Department of Transportation Specification 926-16

SEAL-KRETE Waterproofing Sealer was given product approval number Y193 on August 12, 1985, by the Florida D.O.T.

Description and Use -- SEAL-KRETE is to be used under the heading of "Penetrant Type O" compounds.

Specific Requirements for Type "O" Compounds -- These compounds must be fluid penetrants or surface coatings to be used singly or in combination for the protection of concrete surfaces.

Approval -- The basic approval of these compounds is through an accelerated electrolysis test, Florida Method FM5-518. Acceptable products should meet the minimum resistivity requirements at the end of 10 or 50 days test as described in the Florida D.O.T. Research Report 79/207.

Federal Specification TT-P-0035 for Water Permeability

SEAL-KRETE Waterproofing Sealer was given an "Excellent (E)" rating for waterproofing on February 25, 1983.

Test was conducted by the National Concrete Masonry Association, P.O. Box 781, Herndon, VA 22070.

Modified Procedure -- Test was conducted in the manner prescribed in Federal Specification TT-P-0035. The test panel was a 4" x 8" x 16" concrete block in lieu of the 2' square panel requirement.

Test conducted was equivalent to 98 mph wind pressure.

Independent Laboratory Test for Acids, Salts, and Chlorine Resistance

SEAL-KRETE was tested at Earth Technology Corporation laboratory in Orlando, FL, for corrosive resistance against sodium hypochlorite, hydrochloric acid, sodium chloride (salt), and chlorine.

Test Results -- No visible degradation of the SEAL-KRETE film was observed after 48 hours, indicating SEAL-KRETE to be resistant against the mentioned corrosive materials. Complete test information can be obtained by writing or calling SEAL-KRETE, Inc.

RESEARCH

Testing by Earth Technology Corporation of Orlando, FL

After two years of using and testing SEAL-KRETE Waterproofing Sealer, Technical Director Bob Gross of Earth Technology found SEAL-KRETE to be extremely effective as a concrete and wood sealer, a preservative, and a waterproofing agent. Earth Technology's tests indicate SEAL-KRETE to be:

- Totally non-toxic.
- Binding and strengthening of concrete both old and new.
- The highest in tensile strength of all the competitive products tested.

Testing by University of Florida, School of Building Construction, Gainesville, FL

Field testing of SEAL-KRETE Waterproofing Sealer was by Professor/Director Brisbane H. Brown, Jr., in December 1986. The field test was conducted on a 12-unit, two-story apartment complex of two buildings in Gainesville, FL. The exterior walls were concrete block masonry units with some decorative wood siding and trim.

Test Results -- The sealing of the building was accomplished with relative ease due to the versatility of SEAL-KRETE. No problems occurred with the application and because of the ease of the application, the product was rated excellent overall. A copy of the test is available by writing or calling SEAL-KRETE, Inc.

ASTM Standards

SEAL-KRETE will meet or surpass the following ASTM Standards for Performance.

- ASTM E514-74 Water Permeance of Masonry (Wind Driven Rain Test).
- ASTM D-1653 Moisture Vapor Transmission.

USDA

SEAL-KRETE Waterproofing Sealer has been approved by the USDA for application to structural surfaces where there is a possibility of food contact.

INSTALLATION

PREPARATION

Remove efflorescence, dirt, grease or oils, and other foreign matter from the surface to be sealed. On previously painted surfaces, remove loose and peeling paint and excessive chalk. This can be done by scraping, sandblasting, or use of a pressure washer. Use one part bleach with three parts water on general dirt and mildew. Old and new surfaces require clean and dry conditions for proper application.

Repair all cracks, crevices, and breaks on substrates before applying SEAL-KRETE.

Cover areas or surfaces not to be sealed (such as windows and doors) prior to spraying SEAL-KRETE. Use caution when spraying on windy days.

Overspray on windows should be cleaned immediately with water. SEAL-KRETE will not etch, stain, or damage windows, but due to the extreme bonding qualities, will be difficult to remove if allowed to dry. Removal of the dried SEAL-KRETE film can be accomplished with a razor blade instrument for cleaning windows.

APPLICATION

Pour SEAL-KRETE, without dilution, into the holding tank of a low-pressure sprayer, hand-pump sprayer, or airless sprayer. If preferred, a brush or roller may be used, but an even, saturated coat is important and necessary.

Simply apply SEAL-KRETE to the substrate to be sealed. SEAL-KRETE goes on milky white to assure complete coverage, but dries clear. If the surface is porous, a second coat should be applied for maximum protection. The second coat can be applied 1 hour after first coat is dry. Back roll spray applications. Clean equipment immediately after use with water.

Stucco/Concrete

It can be applied to colored stucco/concrete/masonry during the curing period, eliminating the 2 to 3 week waiting period on solvent-based sealers. SEAL-KRETE aids in the curing process and will not cause colored stucco to “bleed,” which causes discoloration.

When applying to gray stucco/concrete/masonry surfaces that are to be painted, SEAL-KRETE can be applied during the curing period, 7 days after the stucco/concrete/masonry has been applied. Allow SEAL-KRETE to dry approximately 2 to 4 hours, depending upon humidity. Before painting, check the pH factor to be sure it has been reduced to an acceptable level, then top coat with paint. SEAL-KRETE actually lowers the high surface pH to a neutrally acceptable level for coating with acrylic latex paint and elastomeric coatings. SEAL-KRETE allows painting much sooner, saving time for the contractor/applicator. Two (2) coats are recommended.

Cement Slabs (Patios, Floors, Driveways)

While the concrete is still damp to the touch (green stage) and after it has been finished (smooth or rough) simply spray SEAL-KRETE onto the surface. Application of SEAL-KRETE will prevent oil, grease, and fluids from penetrating the surface of the concrete. Penetration of SEAL-KRETE into the concrete will aid the curing process and strengthen the concrete.

Existing Cement Slabs (Patios, Floors, Driveways)

Can be used on rough-finished (porous) cement substrates. If the surface is smooth, it must be

etched and neutralized to allow proper penetration. SEAL-KRETE, when applied on existing concrete slabs (driveways, garage floors, etc.) that are exposed to direct sunlight, may become slightly tacky from excessive heat. A test area should be done before application is made to insure desired results. SEAL-KRETE will not prevent tire marks from occurring.

Brick

New brick, depending on manufacture and location, that has excessive efflorescence needs a waiting period before being sealed. For this reason, be sure the new brick is free of excessive efflorescence before sealing with SEAL-KRETE. A waiting period of 3 to 6 months is about average before sealing if experiencing this problem. On restoration projects, where old brick and grouting areas need waterproofing, SEAL-KRETE is an excellent sealer because of its high binding and waterproofing capabilities. Solvent sealers, because of their bond-breaking abilities, will cause further deterioration of the old brick and grout areas and should not be used.

Wood

SEAL-KRETE can be applied to all types of wood except those that have been treated with creosol or solvents. SEAL-KRETE may be applied to pressure-treated wood. Application may be made on cedar (siding and shake shingles), plywood, wafer board, pressed wood, wood decks, etc. SEAL-KRETE will allow wood to age naturally. It will waterproof and protect it from the damaging effects due to water penetration.

- SEAL-KRETE will not prevent tannin stain on cedar and redwood.
- Knots and flat grain resinous areas of boards should be sealed with an appropriate stain blocking primer.

AVAILABILITY AND COST

AVAILABILITY

SEAL-KRETE Waterproofing Sealer is available through dealers and distributors throughout the United States. SEAL-KRETE is manufactured in Auburndale, FL. Call or write to SEAL-KRETE, Inc., for the nearest dealer in the area.

SEAL-KRETE is available in 1-gallon plastic bottle containers (4 pack) and 5-gallon plastic pails for small jobs. For large construction jobs, it is available in 55-gallon containers.

COST

SEAL-KRETE is competitively priced. The cost varies depending on amount of product purchased and geographic area of purchase. Price quotes may be obtained by calling the factory in Auburndale, FL.

MAINTENANCE

No maintenance required.

WARRANTY

Limited Five-Year Warranty Available

SEAL-KRETE, Inc., will warranty the quality and performance of this product on a per job basis up to 5 years. For full details on available warranty, write SEAL-KRETE, Inc. Guarantee of this product, when used according to directions, is limited to refund of purchase price or replacement of product if it is defective. SEAL-KRETE, Inc., shall not be liable for cost of labor, direct or

incidental consequential damages.

TECHNICAL SERVICES

Technical advice furnished by the company concerning any use or application of SEAL-KRETE is as reliable as current technology allows. The company makes no warranty, expressed or implied, of any use or application for which such advice is furnished.

Complete technical assistance and information is available upon request from SEAL-KRETE, Inc., by writing or calling the home office.

FILING SYSTEMS

SPEC-DATA® II

Additional information available upon request.