

Retro-Coat™ SEALER

Product Description

Retro-Coat SEALER is a two part, solvent-free clear epoxy sealer. It has no odor during application and no toxic byproducts. It is normally applied anywhere up to 20 mils (80 SF/gal) in a single coat. Used as a top coat for the Retro-Coat system, **Retro-Coat SEALER** has enhanced flexibility with a 9% tensile elongation for improved mechanical impact and thermal shock resistance. It dries to a high gloss, water white finish.

Typical Application

Retro-Coat SEALER is recommended to be used as a top clear coat when using a decorative finish in combination with the Retro-Coat system. When applied over a decorative flake or quartz system, **Retro-COAT SEALER** is an ideal clear coat because of its lack of solvents and no odor. **Retro-Coat SEALER** is also an ideal topcoat for the standard Retro-Coat system as it will provide a sacrificial wearing surface that will increase the system's ability to withstand and mask, scuffing, tire marks, and superficial scratches.

Chemical Resistance

Retro-Coat™ SEALER is a modified acrylic epoxy and therefore has slightly different chemical resistance properties than Retro-Coat. If the chemical resistance of the top coat is very important it is advised to not use **Retro-Coat SEALER** as a protective top coat or sacrificial layer, instead use the standard Retro-Coat system.

Physical Properties

Tensile Strength (ASTM D-638)	: 1560 psi	Bond Strength to Quarry Tile	: >1000 psi
Tensile Elongation (D-638)	: 9%	Vapor Transmission Rate (E-96)	: .03 perms
Flexural Strength (D-790)	: 7035 psi	Water Absorption (D-570)	: 0.2% in 24hrs.
Hardness, Shore D (D-2240)	: 80	Taber Abrasion (D-1044)	: 105 mg loss.
		60° Gloss	: 95

Physical Characteristics

Density, lbs/gal.	Mixing Ratios	By Volume	By Weight
Pt. A : 9.5	Pt. A : Pt. B	1.75:1	1.94:1
Pt. B : 8.6			
A&B Mixed : 9.2	Curing Times @	50° F	77° F
Viscosity @ 77°F, cps	Pot Life	65 min.	55 min.
Pt. A : 700	Working Times	55 min.	40 min.
Pt. B : 400	Hard, Foot Traffic	70 hrs.	30 hrs.
A&B Mixed : 600	Maximum hardness and chemical resistance are achieved after 7 days at 77°F		

Color Availability

Standard color is clear and not pigmented.

Packaging and Coverage Rates (for 10 mil coverage)

4 Gallon Kit	:	640 SF
20 Gallon Kit	:	3200 SF
100 Gallon Kit	:	16,000 SF

Shelf Life: 1 Year at 60-80°F
in unopened containers.

Installation

Particular care must be taken to follow those instructions precisely to assure proper installation. These instructions pertain to a standard 20 mil application; please contact us if the desired application is different.

1. No primer is necessary, as **Retro-Coat SEALER** is self priming and meant to be applied directly over Retro-Coat. Allow to dry tack free.
2. **Retro-Coat SEALER** can be applied by a roller or notched rubber squeegee. Recommended coverage is 160 SF per gallon per coat.
3. Apply the mixed material with a short nap roller, a squeegee or a brush. Apply approximately 160 SF per gallon per coat to achieve a finished thickness of about 10 mils depending on the substrate. For application thickness greater than 15 mils, use of a spiked roller is recommended to help eliminate air bubbles.
4. Multiple coats can usually be applied as soon as the first coat is tack free. If the base coat is allowed to dry hard, (for truck traffic), it must be sanded prior to application of the second coat.
5. A suitable aggregate may be broadcast onto the surface after backrolling to provide more anti-slip profile to the finished surface. It is advisable to test various types and sizes of aggregate to achieve the desired finished profile.

Note: Failure to follow the above instruction, unless expressly authorized by a Land Science Technologies Representative, will void our material warranty.

Precautions

1. **Do not apply more than 20 mils (80SF/gallon) per coat, as clarity is diminished.**
2. **Recoat window without sanding at 70°F: 40 hours**

Product Specification

The specified area shall receive an application of **Retro-Coat SEALER** as manufactured by **Land Science Technologies, San Clemente, California**. The system shall be installed by precisely following the manufacturer's published recommendations pertaining to surface preparation, mixing, and application. The material shall be a low odor, solvent-free, 100% solids, high gloss flexibilized epoxy system with good resilience to resist thermal and mechanical shock. The system must adhere to damp as well as dry concrete, wood, metal, tile, terrazzo, and sound existing epoxy and urethane coatings. It shall have an elongation of 9% in the unfilled form, when tested using ASTM D-638. The maximum film hardness shall be a Shore D of 80. The system shall be unaffected by oils, greases, and resist such chemicals as 36% hydrochloric acid, 10% nitric acid, 30% phosphoric and 50% sodium hydroxide.

The data, statements and recommendations set forth in this product information sheet are based on testing, research and other development work which has been carefully conducted by us, and we believe such data, statements and recommendations will serve as reliable guidelines. However, this product is subject to numerable uses under varying conditions over which we have no control, and accordingly, we do NOT warrant that this product is suitable for any particular use. Users are advised to test the product in advance to make certain it is suitable for their particular production conditions and particular use or uses.

WARRANTY – All products manufactured by us are warranted to be first class material and free from defects in material and workmanship.

Liability under this warranty is limited to the net purchase price of any such products proven defective or, at our option, to the repair or replacement of said products upon their return to us transportation prepaid. All claims hereunder on defective products must be made in writing within 30 days after the receipt of such products in your plant and prior to further processing or combining with other materials and products. WE MAKE NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE SUITABILITY OF ANY OF OUR PRODUCTS FOR ANY PARTICULAR USE, AND WE SHALL NOT BE SUBJECT TO LIABILITY FROM ANY DAMAGES RESULTING FROM THEIR USE IN OPERATIONS NOT UNDER OUR DIRECT CONTROL.

THIS WARRANTY IS EXCLUSIVE OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND NO REPRESENTATIVE OF OURS OR ANY OTHER PERSON IS AUTHORIZED TO ASSUME FOR US ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF OUR PRODUCTS.
