

## Retro-Coat™ PRIMER-S

### **Product Description**

**Retro-Coat™ PRIMER-S™** a three part, 100% solids, odorless slurry form of **Retro-Coat PRIMER**. **Retro-Coat PREP-S** is used to repair and level damaged areas of concrete in order to prepare the surface for **Retro-Coat**. Using a specially formulated primer with 30-40 mesh single grade sand, in a 1:1 volumetric ratio, it can be applied in thicknesses up to 120 mils in a single pass. It has excellent damp, as well as dry adhesion to concrete, metal and masonry surfaces.

### **Typical Application**

Existing structures often have old concrete that is spalled or pitted to the extent that a thin film coating will not be able to hide such defects. **Retro-Coat PREP-S** is an ideal resurfacer for quickly and economically smoothing the surface prior to application of a finish coat. It is also intended to be used to level a floor prior to applying a self leveling or slurry/broadcast system – both of which need a level floor prior to application. For applications where surface deflection is up, but not greater than 1/2", **Retro-Coat PRIMER-S** is appropriate.

### **Installation**

**Please refer to our Application Specs for detailed instructions. Particular care must be taken to follow these instructions precisely to assure proper installation.**

1. New concrete should be allowed to cure a minimum of 28 days and be checked with a rubber mat or plastic sheet to insure adequate curing time.
2. All surfaces to be covered should be power washed, shot blasted, acid etched, scarified or sanded to present a clean, sound substrate to which to bond to.
3. All deep holes (> 1/2" thick) should first be patched with and allowed to dry tack free.
4. Mix Part A and Part B first in the exact prescribed ratio, using a low speed jiffy-style mixer (< 750 rpm), then add the designated amount of 30-40 mesh single grade sand and mix for another 30-60 seconds until uniform.
5. Apply the mix in a ribbon fashion, then spread with a flat squeegee to level the floor. If some excess material is desired to be left on the concrete surface, an 1/8" or 1/4" notched squeegee would be the choices. Allow to dry.
6. Apply **Retro-Coat** over the slurry within the open time.

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

### **Precautions**

1. **Fast cure version has limited working time; pour out of bucket immediately after mixing and spread with squeegee. Never apply at temperatures above 65° to 70°F.**
2. **Recoat window at 70°F: Primer SL: 20 hours; SL FC: 12 hours.**
3. **Do not apply below 50°F. For applications below 50°F, consult with a Land Science Technologies Representative.**

### **Product Specification**

The specified area shall receive an application of **Retro-Coat PREP-S** as manufactured by **Land Science Technologies, San Clemente, California**. The system shall be installed by precisely following the manufacturers published recommendations pertaining to surface preparation, mixing and application. The material shall be a low odor, solvent free, 100% solids epoxy primer with an excellent adhesion to damp as well as dry concrete, metal and wood. It should be able to adhere to brick and tile, exceeding 1000 psi on an Elcometer pull test.

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**Physical Properties** (for Regular Cure)

Tensile Strength	(ASTM C-307)	: 3830 psi	Bond Strength to Quarry Tile	: >1000 psi
Tensile Elongation	(C-307)	: 3%	Gardner Impact	: >160 inch pounds
Compressive Strength	(C-579)	: 10,080 psi	Water Absorption	: 0.2% in 24hrs.
Hardness, Shore D	(D-2240)	: 84 D		

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**Physical Characteristics**

Density, lbs/gal.		Mixing Ratios	By Volume	By Weight
Pt. A	9.5	PREP-S A:B	2.3:1	2.5:1
Pt. B	8.5	Aggregate: Liquid	1:1	1.5:1
A&B Mixed	9.2			

  

Viscosity, cps		Curing Times @	50° F	77° F	90° F
Pt. A	550	Regular Cure Pot Life	60 min.	40 min.	20 min.
Pt. B	850	Hard	30 hrs.	12 hrs.	7 hrs.
A&B Mixed	700				

**Shelf Life** 1 year at 77°F in unopened containers

Maximum hardness achieved after 7 days at 77°F

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**Color Availability**

Neutral (but can be tinted)

**Packaging and Coverage Rates** (includes liquid and filler)

Basic Kit	100 SF @ 1/16"
Bulk Pack	1000 SF @ 1/16"
Drum Kit	10,000 SF @ 1/16"

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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 Land Science Technologies, and we believe such data, statements and recommendations will serve as reliable guidelines. However, this product is subject to numerous 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.

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