Land Science®
a division of REGENESIS®

PRODUCT DATA SHEET

Retro-Coat™ PRIMER

Product Description

Retro-Coat™ PRIMER is a low viscosity, two part, 100% solids epoxy primer. It is virtually odorless and non-toxic. **Retro-Coat PRIMER** has excellent damp, as well as dry adhesion to concrete, masonry surfaces, wood and gyp board. With a very low viscosity of 250 centipoise, it readily penetrates porous substrates to provide an excellent mechanical bond. Where faster curing times are required, specify **Retro-Coat PRIMER-FC**.

Typical Application

Applied to a 6 mil thickness, **Retro-Coat PRIMER** provides an ideal substrate for **Retro-Coat**, but may not be required when top coating thickness is greater than 20 mil or a specific aesthetic look is desired. Prior to the application of **Retro-Coat, Retro-Coat PRIMER** should be allowed to dry tack free to maximize its effectiveness.

In areas where concrete is spalled or needs to be leveled **Geo-Seal PRIMER-S** is more appropriate.

Installation

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

1. New concrete should be allowed to cure a minimum of 28 days and/or be checked with a rubber mat or plastic sheet to insure adequate curing time has occurred. If this is not possible, contact Land Science Technologies for further information.
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. The prepared surface should have a ph of 7.
3. Part A and B should be mixed in the prescribed ratio, using a low speed jiffy-style mixer (maximum 750 rpm), for at least 60 seconds.
4. **Retro-Coat PRIMER** is a 100% solids epoxy and no solvents are necessary.
5. Apply the mixed material with a fine nap adhesive roller, squeegee or brush. Apply at approximately 200-250 SF per gallon, depending on surface porosity.
6. Allow to dry prior to the application of **Retro-Coat**.

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

Precautions

1. **Retro-Coat Primer-FC is very fast reacting; pour out of bucket immediately after mixing and spread with squeegee.**
2. **Only Retro-Coat Primer-FC can be applied below 50°F.**
3. **Recoat windows at 70°: Retro-Coat Primer - 18 hours; Retro-Coat Primer-FC - 10 hours for expanding recoat window, broadcast in aggregate into primer.**
4. **Never apply Retro-Coat Primer or Retro-Coat Primer-FC more than 15 mils (100SF/gallon) per pass as it will not cure hard in greater thicknesses.**

Product Specification

The specified area shall receive an application of **Retro-Coat PRIMER** 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 excellent adhesion to damp as well as dry concrete, metal and wood. It should be able to adhere to brick and tile, exceeding1000 psi on an Elcometer pull test.

Physical Characteristics

Density, lbs/gal.	**Pt. A**	**Pt. B**	**A&B Mixed**
Retro-Coat Primer	9.5	8.0	9.2
Retro-Coat Primer-FC	9.5	8.2	9.3
Viscosity@77°F, cps	**Pt. A**	**Pt. B**	**A&B Mixed**
Retro-Coat Primer	476	60	250
Retro-Coat Primer-FC	476	60	250

Mixing Ratios (Part A:Part B)		
	By Volume	**By Weight**
Retro-Coat PRIMER	3.5:1	4.1:1
Retro-Coat PRIMER-FC	4.6:1	5.4:1

Curing Times@		**40°F**	**50°F**	**77°F**	**90°F**
Retro-Coat Primer	Pot Life	----	35 min.	25 min.	15 min.
	Tack Free	----	40 hrs.	10 hrs.	5 hrs.
	Set Hard	----	72 hrs.	18 hrs.	9 hrs.
Retro-Coat Primer-FC	Pot Life	----	10 min.	9 min.	9 min.
	Tack Free	----	18 hrs.	5 hrs.	2 hrs.
	Set Hard	----	30 hrs.	9 hrs.	4 hrs.

Packaging and Coverage Rates

	Retro-Coat Primer & Retro-Coat Primer-FC
4 Gallon Kit:	1000 SF
20 Gallon Kit :	5000 SF
100 Gallon Drum Kit :	25,000 SF