

Retro-Coat™ GEL

Product Description

Retro-Coat™ GEL is a three part, 100% solids epoxy patching material primarily designed for vertical and overhead applications. Its smooth, creamy consistency enables the user to skim coat surfaces that are irregular or pockmarked.

Retro-Coat GEL has virtually no odor and adheres well to damp as well as dry concrete and masonry surfaces. Unlike cementitious or acrylic-based patch material it can be recoated in as little as six hours after application at room temperature.

Product Application

Retro-Coat GEL is most commonly used to fill bug holes, crevices and cracks, as well as repairs to vertical surfaces such as, concrete columns and vertical walls. **Retro-Coat GEL** also serves as a troweled-on skim coat for vertical wall applications.

Chemical Resistance

Retro-Coat GEL will always be coated with Land Science Technologies chemically resistant **Retro-Coat**. For questions additional questions regarding chemical resistance please contact Land Science Technologies.

Physical Properties

| | | | |
|--------------------------------------|------------|------------------------------|------------------|
| Tensile Strength (ASTM C-307) | : 1810 psi | Hardness, Shore D (D-2240) | : 80 |
| Tensile Elongation, unfilled (D-638) | : 10% | Bond Strength to Quarry Tile | : >1000 psi |
| Compression Strength (D-695) | : 6170 psi | Water Absorption | : 0.3% in 24hrs. |

Physical Characteristics

Density, lbs/gal.

| | |
|-----------|-------|
| Pt. A | : 9.7 |
| Pt. B | : 8.0 |
| A&B Mixed | : 9.3 |

Mixing Ratios

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|-----------------------|--|
| Pt. A : Pt. B | |
| Aggregate:Liquid | |
| Curing Times @ | |

Retro-Coat GEL

By Vol By Wgt

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|-------|-------|
| 3.5:1 | 4.3:1 |
| 0.6:1 | 1.5:1 |

Viscosity @ 77°F, cps

| | |
|-----------|---------|
| Pt. A | : 38000 |
| Pt. B | : 550 |
| A&B Mixed | : 4400 |

Retro-Coat GEL

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|---------------------|--|--|--|--|
| Pot Life | | | | |
| Working Time | | | | |
| Hard, (for sanding) | | | | |

| | 32° F | 40° F | 50° F | 77° F | 90° F |
|---------------------|-------|-------|---------|---------|---------|
| Pot Life | ---- | ---- | 45 min. | 40 min. | 15 min. |
| Working Time | ---- | ---- | 65 min. | 50 min. | 40 min. |
| Hard, (for sanding) | ---- | ---- | 72 hrs. | 18 hrs. | 10 hrs. |

Shelf Life

1 year at 77°F in unopened containers

Maximum Hardness achieve after 7 days at 77°F

Color Availability

Standard color: Neutral. But can be ordered in white, concrete gray and beige.

Packaging and Coverage Rates

| | |
|------------|------------------------|
| 1 Gal. Kit | : 40 SF at 1/8" thick |
| Bulk Pack | : 400 SF at 1/8" thick |

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. All surfaces must be cleaned by acid etching, grinding, rough sanding or needle blasting. All loose or flaking coatings and other materials must be removed. All oils, fats, greases or chemically contaminated concrete must be removed.
2. No priming is necessary, as **Retro-Coat GEL** is a self-priming material.
3. Mix the contents of the Part A and Part B containers in a clean, plastic bucket with a slow speed paddle mixer or electric drill for about one minute. Then add in Part C slowly for another minute or so, until the mixture is uniform in color and consistency. Only mix amount of material that can be applied within stated pot life.
4. Use a clean margin trowel or spatula to apply the **Retro-Coat GEL**. The blade should be large enough to span the depression; use a 1-1/2" blade for filling cracks.
5. Press the **Retro-Coat GEL** firmly into place in a wiping motion. Use enough material to overfill the opening.
6. Under normal conditions, **Retro-Coat GEL** can be applied up to 1" depths without sagging. For greater thickness, contact Land Science Technologies.

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

Precautions

1. **Do not apply greater than 1" thick at 70°F**
2. **Recoat windows without sanding at 70°F: Gel – 18 hours**

Product Specification

The specified area shall receive an application of **Retro-Coat GEL** as manufactured by **Land Science Technologies, San Clemente, California**. The material 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, 100% solids, three part epoxy system with bond strength exceeding 1000 psi on quarry tiles. It should be able to be applied on vertical surfaces up to 1" thick at 70°F in a single step application without sagging. The system must adhere to damp, as well as dry concrete. It shall be a resin-rich mixture, with an aggregate:liquid ratio not to exceed 1.5:1 by weight. The compressive strength when tested in accordance with ASTM C-579 shall not exceed 6200 psi and the tensile strength shall be 1810 psi when tested under ASTM C-307.

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.
