



# RESIST SAND FINISH OVERLAY



## PRODUCT DESCRIPTION

RESIST Epoxy is 100% solids, solvent-free, two-component epoxy system. Formulated to seal, protect and lengthen the life of concrete and parking structures, RESIST SAND FINISH OVERLAY also provides exceptional skid resistance with a top-layer of specially selected aggregate.

### FEATURES:

- Excellent bond strength for a durable, yet flexible coating that is resistant to moisture.
- Superior resiliency and impact resistance.
- Bonds directly with the surface for exceptional chemical and water resistance.
- Non-shrink and flexible enough to withstand slight movement and extreme temperature changes.
- Provides skid resistance with a top-layer of specially selected aggregate.
- Economical and long lasting.
- Easy to use 1:1 mixing ratio.

### USES:

Suitable for exterior use on new or existing concrete and parking structures.

## APPLICATION PROCEDURES

### PREPARATION:

The user should be familiar with the application instructions found on the container's label prior to using this product. Aggregate to be used should be washed, graded and dry prior to application. A proper inspection of the concrete is required to check for structural deficiencies, and any deteriorated areas should be promptly marked and removed. Repair delamination, potholes and cracks with Resist Crack Treatment. The entire surface should be shot blasted or ground to a CSP #2 to #3 or depth that ensures that all deteriorated and contaminated concrete (oil, dirt, rubber, paint carbonation, laitance, weak surface mortar, etc) is removed. Remove any remaining dust with compressed air, using a properly maintained and filtered compressor that will not spray oil or moisture onto the deck.

If you pressure wash make sure concrete is fully dry. The overlay should be applied to the surface within 24 hours of cleaning.

For applications exposed to heavy wear and/or in the case of concrete slabs that are soft or extremely porous, a base coat of RESIST Epoxy will be required. The base coat, applied at a rate of 200 sq' per gallon, should be treated with a full broadcast of RESIST approved wear surface aggregate and allowed to cure prior to installing the main RESIST application.

RESIST Sand Finish Overlay may be used at a range of temperatures, however the user should be aware that temperature plays a role in the pot life and cure times of this product. Higher temperatures will result in shorter pot life and cure times, while lower temperatures will result in longer pot life and cure times.

### MIXING:

- 1) Mixing ratio for the two components is 1:1 by volume (not weight).
- 2) Components "A" and "B" are supplied in separate containers and should be combined using a paddle mixer (powered by a low speed electric drill) or a proportioning pump for 3-5 minutes.
- 3) RESIST SAND FINISH OVERLAY does not contain volatile solvents and solvents should not be added to this product.
- 4) When using the Armestone aggregate, you will simply Part A and Part B as described above
- 5) When using the Goldmine aggregate, you will need to add the Antique White 1 Quart Universal Tint Paste per every 2 Gallons of mixed material (1-Gallon Part A & 1-Gallon Part B.). Best practice is to introduce the 1 quart of colorant into the Part A (1 Gallon, mix thoroughly) and then introduce Part B into that colored Part A.
- 6) When using the Silver Fox aggregate, you will need to add the Silver Gray 1 Quart Universal Tint Paste per every 2 Gallons of mixed material (1-Gallon Part A & 1-Gallon Part B.). Best practice is to introduce the 1 quart of colorant into the Part A (1 Gallon, mix thoroughly) and then introduce Part B into that colored Part A.

### APPLICATION:

This product should be used immediately upon mixing as this will increase its available working time. The mixed epoxy should be poured onto the surface and spread at the proper application rate using a magic trowel or notched squeegee (a notched squeegee will facilitate proper mil thickness). Back roll with a 3/8 to 1/2 inch roller to ensure all lines are evened out. Immediately follow this with a broadcast of sands over the epoxy at a rate sufficient to completely cover the epoxy. If need be, recoat with sand to make sure epoxy is covered.



PRO TIPS: Stage work stations. Load sands in easy scoopable trays for broadcasting. Keep all non mix resist kits in controlled environments. Dispense contents from mixing bucket immediately to avoid the epoxy from setting rapidly in the bucket.

### COVERAGE:

SURFACE	COVERAGE
Base Coat	150 sq' per gallon base coat
Second Coat	75-100 sq' per gallon second coat with sand broadcast.

Coverage rates are provided as a guideline only. Many factors including surface texture, porosity and weather conditions will determine actual coverage rates.

### COMPANION PRODUCTS:

RESIST TOPCOAT - A blend of 100% methyl and ethyl methacrylate polymers used as a superior and specialized compound for curing and sealing exposed aggregate, stamped/stenciled concrete and other decorative concrete and masonry surfaces.

RESIST AGGREGATE - Use RESIST wear surface aggregate per suggested coverage rates. If another aggregate is to be substituted, it must be approved by SureCrete. For Substitution request, please contact your SureCrete Account Manager or authorized reseller. Any aggregate that is not RESIST branded or approved will negate any product performance warranties.

- Broadcast to refusal on second coat of RESIST Epoxy 40- 50 sq' per bag.
- Provides a slip resistant surface with a broadcast layer of RESIST Sand.
- Engineered system that provides compatible products for addressing crack treatment, surface defects as well as non-yellowing, color-enhancing, protective top coat.

RESIST CRACK TREATMENT - use the 2-gallon epoxy kit to effectively treat cracks in concrete or minimize their return inactive, structural cracks and patching concrete.

RESIST REPAIR MORTAR - Single component, high compressive strength, self-bonding, cement-based patching compound that sets up rapidly, with a 10-minute working time.

## TECHNICAL DATA:

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**Gel time (@ 75°F):** 25-35 minutes

**Viscosity:** 400-600 cps

**A.I.M. Category:** Concrete Protective Coating Maximum VOC 400 g/l

**Applicable Standards**

- ASTM C-881, Type III, Grade 1, Class B and C
- ASTM D-695 Compressive Modulus
- ASTM D-638 Tensile Strength and Elongation
- AASHTO M-235 Type II and III, Grade 1, Class B,C and D

#### ASTM C882 – SLANT SHEAR BOND STRENGTH

2 days - 890 psi  
14 days - 1,395 psi

#### ASTM D638 – TENSILE STRENGTH

Tensile Strength @ 7 days - 1,744 psi  
Tensile Elongation @ 7 days - 1.6%  
Tensile Modulus @ 7 days -  $6.6 \times 10^5$  psi

#### ASTM D695 – COMPRESSIVE YIELD STRENGTH

1 day - 5,088 psi  
3 days - 5,697 psi  
7 days - 5,955 psi  
14 days - 6,128 psi  
28 days - 6144 psi

## CLEAN UP:

Clean equipment, tools and spills with an aromatic solvent such as TK-00 XYLENE\*.

## FIRST AID:

- Consult this product's safety data sheet for additional health and safety information. Safety Data Sheets are available through distributors, the main office and the website.

## AVAILABILITY:

RESIST SAND FINISH OVERLAY is available through Surecrete and TK Products distributors. Visit [www.surecretedesign.com](http://www.surecretedesign.com) for the nearest distributor.

Packaged in 10-gallon and 2-gallon kits.

\*The 2-gallon kit is ideal for smaller projects, crack treatment and samples.

Contact your Surecrete / TK Products representative for aggregate availability and/or recommendations.

## FOR PROFESSIONAL USE ONLY

## NOTES:

\*TK-00 XYLENE must be purchased separately

## LIMITATIONS:

- For use by trained professionals that have read the complete SDS.
- RESIST overlay system is formulated for use over concrete that is structurally sound, properly cured, non-moving, and thoroughly clean. A CSP of 3, achieved through a mechanical surface preparation method, is required.
- RESIST overlay system requires a sealer or coating. Must be sealed with RESIST Top Coat per its TDS.
- RESIST overlay system must NOT be used in areas subject to hydrostatic pressure, active water leaks, or continuous water immersion.
- RESIST Crack Treatment should be used to address dormant cracks in the concrete surface. Underlying causes of cracking or deterioration should be addressed. Please note, addressing existing cracks with RESIST Crack Treatment is required, however, not a guarantee that existing cracks could potentially reflect through the surface of the RESIST overlay system.
- All substrate joints should be honored and not bridged by any material.
- RESIST overlay system is not recommended and NOT designed to withstand exposure to snowplows or aggressive snow removal processes that could cause damage to either the concrete or the surface of the RESIST overlay system. This would include the following: snowplows, snow blowers with chains, or any other heavy, abrasive equipment.
- Shelf life is approximately 12 months from the date of manufacture when stored in unopened containers.
- Air and substrate temperatures should be 60°F or higher at the time of application. Lower temperatures will result on longer cure times and possibly prevent the material from curing altogether.

CONDITIONS OF SALE: SureCrete, warrants that its products conform to label descriptions, are free of manufacturing defects, and are fit for the ordinary purposes for which such goods are used. In as much as the use of SureCrete products by others and other factors affecting product performance are beyond SureCrete control, SureCrete does not guarantee the results to be obtained. There are no warranties except as stated herein, either expressed or implied, including implied warranties of merchantability or fitness for a particular purpose. SHOULD ANY SURECRETE PRODUCT FAIL TO GIVE SATISFACTORY RESULTS, SURECRETE WILL REPLACE THE PRODUCT OR, AT ITS OPTION, REFUND THE PURCHASE PRICE. THIS IS THE SOLE AND EXCLUSIVE REMEDY FOR ANY FAILURE OF SURECRETE'S PRODUCTS TO PERFORM AS WARRANTED AND SHALL ALSO CONSTITUTE LIQUIDATED DAMAGES IN CASE OF LOSS. UNDER NO CIRCUMSTANCES SHALL THE BUYER BE ENTITLED TO ANY OTHER REMEDY OR DAMAGES. REMEDIES FOR INCIDENTAL AND CONSEQUENTIAL DAMAGE ARE SPECIFICALLY EXCLUDED. SureCrete does not authorize any person to assume for it any other liability in connection with the sale of use of its products unless specifically authorized by SureCrete in writing.