



# RESIST EPOXY

## 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 insensitive to moisture.
- Superior resiliency and impact resistance.
- Bonds directly with the surface for exceptional chemical resistance and waterproofing.
- 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.

In the case of concrete slabs that are soft or extremely porous, a prime coat of RESIST Epoxy will be required. The prime coat, applied at a rate of 200 sq' per gallon, should be treated with a light 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.

## 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
Prime Coat	200 sq' per gallon prime coat
Second Coat	150 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.

## CLEAN UP:

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

## LIMITATIONS:

- 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.

## FIRST AID:

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

## AVAILABILITY:

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

Packaged in 10-gallon kits

Contact your SureCrete / TK Products representative for aggregate availability / recommendations

FOR PROFESSIONAL USE ONLY

## NOTES:

\*RESIST CRACK TREATMENT must be purchased separately

\*TK-00 XYLENE must be purchased separately

## COMPANION PRODUCTS:

**RESIST TOPCOAT** - A blend of 100% methyl and ethyl methylete 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 WEAR SURFACE AGGREGATE** - Use RESIST Wear Surface Aggregate per suggested coverage rates. If another sand is to be substituted, it must be approved by SureCrete. For Substitution request, please contact your SureCrete Account Manager or authorized reseller. Any sand 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 repair, surface defects as well as a no yellowing, color enhancing protective top coat.

**RESIST CRACK TREATMENT** - a two part system 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:

TECHNICAL DATA	
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

## TESTING DATA:

### 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 x 10<sup>5</sup> 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 - 6,144 psi