

TECHNICAL DATA SHEET

Concrete Crack Filler 1:1 Ratio

RESIST CRACK TREATMENT is a low modulus, 2 part epoxy designed to be an effective and compatible crack treatment system for RESIST Sand Epoxy Overlays. The simple 1 to 1 mixing ratio combined with the use of RESIST wear surface aggregate, will create a reliant bridge over existing cracks in concrete slabs.

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:

Can be used with RESIST wear surface aggregate on cracks ranging from 1/4" up to 3/4" . Can also be used to fill control joints or as a patch for various deteriorated concrete surfaces.

APPLICATION PROCEDURE

PREPARATION:

Clean out cracks with a diamond grinder or a wire brush. Use a shop vacuum or compressed air to remove dust. Apply a layer of RESIST Crack Treatment to the intended area. Add specified sand and additional RESIST Crack Treatment layers. Make sure to fully saturate the wear surface aggregate.

Strike off excess aggregate and RESIST Crack Treatment and allow to cure.

Use a razor scrapper to cut the repair flush with the concrete surface. Use a finishing stone or similar device to blend the repair with the surrounding concrete.

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.



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APPLICATION:

This product should be used immediately upon mixing as this will increase its available working time. The mixed epoxy should be poured into the crack, while adding RESIST approved aggregate, until the crack is completely filled. Be sure that the wear surface aggregate is completely saturated with the crack treatment material.

Be aware the material will begin to set within 20-25 minutes (gel time).

It is advised that once the material is mixed, it is dispensed from the mixing container as efficiently as possible. Failure to do this will result in a rapid-acceleration of the set time of the material.

COVERAGE:

Up to 500 lineal feet per 2 gallons of mixed material at 1/4".

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 distributors, the office and the website.

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 10⁵ 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

AVAILABILITY:

RESIST Crack Treatment is available through Surecrete and TK Products distributors. Visit www.surecretedesign.com for the nearest distributor.

Packaged in (2) 2-gallon kits

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

FOR PROFESSIONAL USE ONLY

NOTES:

*TK-00 XYLENE must be purchased separately