

# TK-BRIDGE DECK & CRACK SEALER 2110

## Epoxy Sealer for Concrete Bridge Decks

Item No. TK-2110

### PRODUCT DESCRIPTION

TK-2110 BRIDGE DECK & CRACK SEALER is a VOC compliant, low viscosity, solvent-free, two-component, gravity-fed crack and deck sealer designed specifically for Department of Transportation (D.O.T.) projects. May be used as a safer alternative to hazardous methylmethacrylates.

#### Features

- Ultra low viscosity for penetrating hairline cracks up to 0.1 mm in width (.004 inches).
- Fast turn-around times and shorter traffic delays; surfaces may be reopened to traffic in just 4 hours (at 72°F).
- Protects the surface from chloride chemical attack as well as abrasion, acids, alkali, petroleum and salt spray.
- When topcoated with silica sand, provides skid resistance for safer surfaces.

### USES:

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

### APPLICATION PROCEDURES

#### PREPARATION:

Please note that it is the responsibility of the user to ensure proper application by following all preparation, mixing and application guidelines. Jobsite visits by TK representatives are meant as a source of technical recommendation only, and do not qualify as project supervision or quality management.

The user should be familiar with the application instructions found on the container's label and should have read the material safety data sheet in its entirety prior to using this product.

Minimum age of concrete surfaces is 21-28 days, depending on curing and drying conditions. Surfaces must be dry and free of foreign materials. Sandblasting, shot blasting or water blasting methods should be employed to remove any such materials and prepare the surface for application.

Cracks should be blown clean by compressed air. Any cracks greater than 1/8" in width should be treated individually by filling with dry silica sand, then applying a small amount of TK-EPOXY CRACK FILLER 9000 overtop with a paint brush.

#### MIXING:

- 1) Mixing ratio for the two components in 4:1 by volume.
- 2) Components "A" and "B" are supplied in separate, pre measured containers and should be mixed individually using a power mechanical mixer.
- 3) The two components should then be combined together by pouring the entire contents of component "B" into component "A" and mixing for 2-3 minutes.

### TECHNICAL DATA

Solids (%):	100
Viscosity (mixed):	124 cps
Flash Point:	> 200°F
Pot-life (@ 70°F):	35 minutes
Shelf Life:	2 years in original, unopened container
Storage Conditions:	Store material in a dry area out of direct sunlight, between 50-90°F (4-32°C)
VOC Content:	< 10 g/l
A.I.M. Category:	Waterproofing Sealers and Treatments Maximum VOC 600 g/l
Applicable Standards:	- ASTM D-638 Tensile Strength and Elongation - ASTM D-695 Compressive Strength - ASTM D-570 Water Absorption - ASTM D-2566 Linear Coefficient of Shrinkage - ASTM C-881 Bond Strength: Type I, II, and IV & V Grade 1, Classes B & C - AASHTO M235: Type I, II, and IV & V Grade 1, Classes B & C

4) Make certain to scrape the sides of the container clean while mixing.

5) Whenever preparing multiple kits of material, mix only the amount that can be used within the pot life of the material.

### APPLICATION:

Once mixed, **immediately** pour the entire contents of the epoxy onto the surface and begin to distribute by evenly spreading with a squeegee or roller. Apply this product to one small section of the surface at a time and at a prompt pace as this will substantially prolong (up to 1 hour) the pot life and working time of the material. Allow the epoxy to pond over cracks but do not allow it to settle into tynes. Broom out any excess epoxy from the surface and sweep it out of tynes. Let the material saturate the substrate for 10 minutes, then move on to the next section by squeegeeing it onto the next surface and repeating the process. Do not over apply TK-2110 BRIDGE DECK & CRACK SEALER.

If silica sand is to be used as a topcoat, it should be broadcast immediately once the epoxy has been spread across the entire surface area and before it has had a chance to cure. If a recoat is needed, it should be applied within 24 hours of the original application.

For added traction and skid resistance, TK Products recommends the use of 30 mesh aggregate (dry) to be broadcast at a rate of approximately 4-lbs./100 square feet into the resin before it has cured. Aggregate may be broadcast by hand throwing or by spreader. Excessive loose aggregate must be removed before reopening the surface to traffic.

**COVERAGE:**

Typical coverage rate is 100-200 square feet per gallon, however this rate can fluctuate based on the substrate, surface profile and the amount of crack in the concrete.

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

**APPROXIMATE TACK FREE TIME**

(Ambient and Substrate Temperature)

Temperature	55°F (12.8°C)	65°F (18.3°C)	75°F (23.9°C)	85°F (29.4°C)
Tack Free	> 11 + hr	7.5 hr	5.5 hr	3 hr

**CLEAN UP:**

Clean equipment, tools and spills with an aromatic solvent such as TK-00 XYLENE\* before the material dries. Dried material may be removed using an epoxy stripper.

**LIMITATIONS:**

- TK-2110 BRIDGE DECK & CRACK SEALER is a film and will eventually wear off the surface due to surface abrasion. However any cracks that were treated will remain unaffected.
- Do not use this product if air or substrate temperatures are below 50°F or will fall below this level within 24 hours of application.
- Do not mix previously catalyzed material with fresh material.
- Minimum age of concrete surfaces is 21-28 days, depending on curing and drying conditions.

**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:**

TK-2110 BRIDGE DECK & CRACK SEALER is available through TK Distributors. Contact TK Products for the nearest distributor. Packaged in pre measured 1-gallon, 5-gallon and 50-gallon kits.

**Kit Contents:**

- 1-gallon kit: 1-short filled gallon (Component “A”) + 1-short filled quart (Component “B”)
- 5-gallon kit: 1-short filled 5-gallon pail (Component “A”) + 1-short filled gallon (Component “B”)
- 50-gallon kit: 1-short filled 55-gallon drum (Component “A”) + 2 5-gallon pails (Component “B”)

Contact your TK representative for silica sand availability/ recommendations.

FOR PROFESSIONAL USE ONLY

**NOTES:**

\*TK-00 XYLENE must be purchased separately

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**TK Products Construction Coatings**

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