



TK-EPOXY BRIDGE DECK OVERLAY 2109

Protective Epoxy/Aggregate System

Item No. TK-2109

PRODUCT DESCRIPTION

TK-EPOXY BRIDGE DECK OVERLAY 2109 is a low viscosity, 100% solids, solvent-free, two-component epoxy system. Formulated to seal, protect and lengthen the life of concrete bridge decks and parking structures, TK-EPOXY BRIDGE DECK OVERLAY 2109 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 3/8" top-layer of specially selected sharp black aggregate.
- Economical and long lasting.
- Easy to use 1:1 mixing ratio.

USES:

Suitable for exterior use on new or existing concrete bridge decks 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 bridge deck is required to check for structural deficiencies, and any deteriorated areas should be promptly marked and removed. Repair delaminations, potholes and cracks with TK-EPOXY PATCH 211*. The entire bridge deck should be steel shot blasted to a 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. The overlay should be applied to the surface within 24 hours of cleaning.

TK-EPOXY BRIDGE DECK OVERLAY 2109 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) TK-EPOXY BRIDGE DECK OVERLAY 2109 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 notched squeegee. Immediately follow this with a broadcast of aggregate over the epoxy at a rate sufficient to completely cover the epoxy.

COVERAGE:

Surface	Coverage
First Coat	Epoxy: 40 square feet/gallon Aggregate: 3 pounds/square foot
Second Coat	Epoxy: 20 square feet/gallon Aggregate: 4 pounds/square foot

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

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

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:

TK-EPOXY BRIDGE DECK OVERLAY 2109 is available through TK Distributors. Contact TK Products for the nearest distributor.

Packaged in 110-gallon, 10-gallon and 2-gallon kits.

Contact your TK representative for aggregate availability/recommendations.

FOR PROFESSIONAL USE ONLY

NOTES:

*TK-EPOXY PATCH 211 must be purchased separately

*TK-00 XYLENE must be purchased separately

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CONDITIONS OF SALE/ LIMITED WARRANTY

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