



TK-MMA BRIDGE DECK SEALER

Rapid Curing Methacrylate Coating

Item No. TK-2414

PRODUCT DESCRIPTION

TK-MMA BRIDGE DECK SEALER is a two-component, low viscosity, low surface tension, solvent-free, rapid curing reactive methacrylate resin for penetrating, repairing and sealing cracks in concrete bridge decks and parking structures.

Features:

- Uses gravity and low viscosity to penetrate cracks.
- Provides resistance from water and chloride ion penetration
- Resists effects of UV rays, weathering and aging and prevents premature deterioration of the surface.
- Usable in a wide range of temperatures (from 35°F to 104°F), allowing for an extended application season
- Fast curing - permits surface reopening in minimal time
- Low VOC
- User friendly and easy to use

USES:

Suitable for exterior use on horizontal concrete, bridge decks and parking structures.

APPLICATION PROCEDURES:

PREPARATION:

Check the weather forecast to ensure that dry conditions will be present for application and drying. The surface must be clean, dry and free of dirt, dust, oil, wax, curing compounds, efflorescence, laitance and any other bond-breaking materials. Brush blast the substrate using a dust-free, mobile shot blaster or grit blaster to expose surface cracking. Do not utilize wet preparation methods.

MIXING:

TK-MMA BRIDGE DECK SEALER (component "A") is to be mixed with tubs of Initiator (component "B"). The required number of tubs varies due to air and substrate temperature at the time of application. Consult the following mixing chart to determine the amount of initiator required:

MIXING CHART

Temperature (°F)	# tubs of Initiator (component "B")
40°F	5
50°F	4
60°F	3
70°F	2
85°F	1

NOTE: Initiator tubs (Component "B") are sized appropriately for 5-gallons of sealer. Mixing of larger volumes is not recommended.

Standard Kit Contents:

- 5-gallon kit: (1) 5-gallon pail of sealer + (*) 6.20-oz. tub(s) of initiator

TECHNICAL DATA

Composition and Materials:	A reactive methacrylate resin
Color:	Clear
VOC Content:	< 100 g/l
A.I.M. Category:	Waterproofing Sealers, Concrete/Masonry Maximum VOC 400 g/l

TESTING DATA

TEST	RESULTS
Gel Time (ASTM D2471):	25-35 minutes
Tack Free Time (AASHTO T237):	30-60 minutes @ 70°F
Tensile Strength (ASTM D638):	2328 psi
Tensile Elongation (ASTM D638):	30%
Shear Bond Adhesion (ASTM C882):	2188 psi
Viscosity (Brookfield RVT):	< 25 cps

Mixing Procedure:

- 1) Once the number of tubs of initiator (component "B") has been properly determined, add the initiator to the sealer (component "A") by sifting it into the liquid and mixing to ensure there are no lumps present.
- 2) Stir vigorously with a mechanical mixer 1-2 minutes until the initiator is fully dissolved.
- 3) The material should be applied immediately upon mixing as working time is 15-30 minutes. Dumping and spreading the material into a thin film will NOT extend this time.

APPLICATION:

TK-MMA BRIDGE DECK SEALER is to be applied as a flood coat and in a gravity fed process by broom or roller. The contents of the batch should be poured onto the substrate and immediately worked into cracks using a squeegee, a solvent-grade roller (1/2"-3/4" nap), or a broom. Do not allow material to pond on the surface. Some areas may absorb greater amounts of TK-MMA BRIDGE DECK SEALER, resulting in dry spots. These areas should be treated with additional amounts of product until it is absorbed to the point of refusal. On very porous surfaces, a second treatment may be required.

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 between 90-150 square feet per gallon. Highly porous surfaces will result in reduced coverage rates.

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

LIMITATIONS:

- Do not thin as the addition of solvents will prevent proper curing.
- Temperatures must be 35°F or above during application.
- Concrete must be allowed to cure for 21-28 days prior to application of this product.
- Sealed concrete surfaces may appear blotchy due to differential absorption.
- **Proper application of this product is the responsibility of the user. Jobsite visits by TK Products staff are meant as a technical resource ONLY. No supervision of the application processes or quality control will be performed by TK Products.**

STORAGE:

TK-MMA BRIDGE DECK SEALER should be stored in a cool, dry place away from sunlight. Store in its original, unopened container. Maximum storage temperature is 86°F.

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-MMA BRIDGE DECK SEALER is available through TK Distributors. Contact TK Products for the nearest distributor.

Packaged in 55-gallon and 5-gallon kits.

Standard Kit Contents:

5-gallon kit: (1) 5-gallon pail of sealer + (*) 6.20-oz. tub(s) of initiator

55-gallon kit: (1) 55-gallon drum of sealer + (11) 6.20-oz. tub(s) of initiator

**Air and substrate temperatures will determine the number of tubs of Initiator required.*

Refer to the "Mixing Chart" on front for temperature/unit variables.

FOR PROFESSIONAL USE ONLY

03/17 Last Rev.01/17

CONDITIONS OF SALE/ LIMITED WARRANTY

TK Products, division of the Sierra Corporation, warrants that its products conform to the label descriptions, are free from manufacturing defects, and are fit for the ordinary purposes for which such goods are used. Inasmuch as the use of TK Products' product by others and other factors affecting product performance are beyond TK Products' control, TK Products does not guarantee the results to be obtained. There are no warranties except as stated herein, either express or implied, including implied warranties of merchantability or fitness for a particular purpose. **SHOULD ANY TK PRODUCTS' PRODUCT FAIL TO GIVE SATISFACTORY RESULTS, TK PRODUCTS WILL REPLACE THE PRODUCT, OR AT ITS OPTION, REFUND THE PURCHASE PRICE. THIS IS THE SOLE AND EXCLUSIVE REMEDY FOR ANY FAILURE OF TK PRODUCTS' 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 DAMAGES ARE SPECIFICALLY EXCLUDED.** TK Products does not authorize any person to assume for it any other liability in connection with the sale or use of its products unless specifically authorized by TK Products in writing.

TK DISCLAIMER:

Every effort has been made to ensure the accuracy of the above information and to avoid infringement of any patent or copyright. The information is based on field tests by government and private agencies, as well as lab tests, and on technical data from raw material manufacturers. The person(s) specifying or requesting the use of these products is responsible for assuring their suitability for a specific use, as well as the proper application of the products. Where there is any question as to the suitability of a particular product, a small test patch is recommended. See also CONDITIONS OF SALE/ LIMITED WARRANTY (Section 7) above.