



# TK-HMWMA BRIDGE DECK SEALER 2415

## High Molecular Weight Methacrylate Coating

Item No. TK-2415

### PRODUCT DESCRIPTION

TK-HMWMA BRIDGE DECK SEALER 2415 is a fast curing, 100% solids, completely reactive polymer system designed to deeply and rapidly penetrate into cracks and pores in concrete surfaces. TK-HMWMA BRIDGE DECK SEALER 2415 re-bonds cracks and acts as a tenacious barrier to protect high traffic surfaces from water and environmental contamination.

#### Features:

- Provides resistance from water and chloride ion penetration
- Resists effects of weathering and aging
- Usable in a wide range of substrate temperatures (from 50°F to 90°F), allowing for an extended application season
- Fast curing - permits surface reopening in minimal time (in daytime, sunlight conditions)
- Low viscosity and surface tension result in excellent penetration into cracks
- Low odor, low VOC content
- User friendly and easy to use
- High flash point (less flammable)

#### USES:

Suitable for exterior application to horizontal concrete surfaces, bridge decks and parking structures.

### APPLICATION PROCEDURES:

#### PREPARATION:

TK-HMWMA BRIDGE DECK SEALER 2415 requires minimal surface preparation, however the surface must be clean, dry and free of dirt, dust, oil, wax, curing compounds, efflorescence, laitance and any other bond-breaking materials. Concrete and bridge decks that are reasonably clean may be swept with high-pressure air to remove small amounts of dirt. If wet preparation methods are used, the surface must be adequately dry before application.

#### MIXING:

TK-HMWMA BRIDGE DECK SEALER 2415 is a three-component product and should be mixed using the following starting point formulas:

#### MIXING CHART

| Substrate Temperature (°F) | TK-2415 Sealer (component "A") | Accelerator (component "B") | CHP Catalyst (component "C") |
|----------------------------|--------------------------------|-----------------------------|------------------------------|
| 90°F                       | 4 gallons                      | 0.65 fl. oz.                | 7.3 fl. oz. (1 unit)         |
| 80°F                       | 4 gallons                      | 1.3 fl. oz.                 | 7.3 fl. oz. (1 unit)         |
| 70°F                       | 4 gallons                      | 2.6 fl. oz.                 | 7.3 fl. oz. (1 unit)         |
| 60°F                       | 4 gallons                      | 3.9 fl. oz.                 | 7.3 fl. oz. (1 unit)         |
| 50°F                       | 4 gallons                      | 5.2 fl. oz.                 | 7.3 fl. oz. (1 unit)         |

### TECHNICAL DATA

|                   |  |
|-------------------|--|
| Color:            | Clear  |
| Flash Point:      | > 200°F  |
| Specific Gravity: | 1.03   |
| VOC Content:      | 0 g/l  |
| A.I.M. Category:  | Waterproofing Sealers, Concrete/Masonry<br>Maximum VOC 400 g/l |

### TESTING DATA

| TEST                                    | RESULTS    |
|---|------------|
| Viscosity (ASTM D2196):                 | < 25 cps   |
| Bond Strength (ASTM C882, Slant Shear): | 2300 psi   |
| Tensile Strength (ASTM D638):           | 4368 psi   |
| Tensile Elongation (ASTM D638):         | 1.7%       |
| Compressive Strength (ASTM D695):       | 8960 psi   |
| Gel Time (ASTM D2471):                  | 17 minutes |
| Tack Free Time (ASTM D1640):            | < 5 hours  |

Note: Modifications may be required when applying in significantly hotter/cooler conditions or during nighttime applications. When substrate temperatures are consistently above 90°F, night time application is recommended. Otherwise, reducing the amount of Accelerator (component "B") should be considered in hotter temperature applications.

#### Mixing Instructions:

Begin by combining the CHP Catalyst (component "C") directly into the TK-2415 Sealer (component "A") using a variable speed drill motor mixer. Remove container lid and mechanically mix in any material that is floating on the surface. Any material that has adhered to the lid should be scraped off and added to this mixture. Finally, add the appropriate amount of Accelerator (component "B") and mix thoroughly.

#### Special Mixing Notes:

- Component "C" is supplied in pre-measured units for use with either 4-gallon or 50-gallon kits.
- Component "B" is supplied in a fully filled quart bottle. The applicator must measure the appropriate amount of Component "B" for the substrate temperature and size of kit being used (see Mixing Chart for guidelines).

**WARNING!** Do not allow the Accelerator (component "B") to come into direct contact with the CHP Catalyst (component "C") as this could result in an exothermic mixture. Keep mixing containers separate and do not cross contaminate.

It is important to follow the mixing instructions above and to take precautions by wearing personal protection equipment. Before using this product, thoroughly read and understand this product's label, technical data sheet and Safety Data Sheet (SDS). Eye protection should

always be worn when working with hazardous materials. If splashing is possible, a full face shield is advised. Eye rinse stations should be readily available at the job site. Avoid contact with the skin by wearing protective gloves, footwear and aprons if the possibility of splashing on clothing exists. If material gets onto clothing, immediately remove clothing and wash affected area with soap and water. Respirator use may be required in the event of poor ventilation or if the victim is experiencing effects from vapor exposure.

#### **APPLICATION:**

Upon mixing, the material should be applied immediately as working time is 15-30 minutes before the product begins to gel. Dumping and spreading of the material onto a cooler surface will extend this time.

TK-HMWMA BRIDGE DECK SEALER 2415 is to be applied as a flood coat and in a gravity fed process by broom, roller or squeegee. Do not allow material to pond on the surface. The typical coverage rate is 60-120 square feet per gallon. Some areas may absorb greater amounts of TK-HMWMA BRIDGE DECK SEALER 2415, 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.

#### **DRYING TIME:**

Note that air and substrate temperatures, humidity levels and exposure to UV light can all have a significant effect on drying times. Due to these variations, a test patch should be applied using the application procedures intended for the project and the area evaluated to determine the particular catalyst ratios required.

#### **CLEAN UP:**

Clean tools and spills with Xylene before the material cures.

#### **COVERAGE:**

Typical coverage rate is between 60-120 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.
- Substrate temperatures should be 50°F and rising during application. Colder temperatures will increase dry times.
- The product is fast curing during optimal daytime, sunlight conditions. Modifications may be necessary in order to apply this product at night or in extreme temperatures.

#### **STORAGE:**

TK-HMWMA BRIDGE DECK SEALER 2415 should be stored in a cool, dry place out of direct sunlight. Shelf life is 6-9 months in original, unopened containers.

#### **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.
- Contact with eyes may cause irritation including burning, watering and redness. If the material gets in the eyes, flush with large amounts of water for 15 minutes, lifting upper and lower eyelids. If irritation persists, seek medical attention.
- Contact with skin may cause mild irritation including redness, burning and drying and cracking of the skin. Continued exposure may develop into dermatitis. May cause irritation with redness, pain and skin sensitization in some individuals. If the material comes into contact with the skin, wash contaminated area with soap and water. Remove and launder contaminated clothing.
- Inhalation of vapors and mists may cause irritation of the nose, throat and lungs and may lead to headaches and nausea. In the event of over-exposure to vapors, relocate victim to fresh air and provide oxygen if breathing is difficult. If breathing has stopped, administer artificial respiration and seek medical attention if conditions persist.

#### **AVAILABILITY:**

TK-HMWMA BRIDGE DECK SEALER 2415 is available through TK Distributors. Contact TK Products for the nearest distributor.

Packaged in 55-gallon and 5-gallon kits.

FOR PROFESSIONAL USE ONLY

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