

# TK-TRI-METHOXANE 2300

## Severe Duty Masonry Coating | NTPEP Evaluated

Item No. TK-2300 (smooth), TK-2300-201 (fine), TK-2300-301 (medium), TK-2300-401 (coarse)

### PRODUCT DESCRIPTION

TK-TRI-METHOXANE 2300 is a single-component coating designed to protect "severe duty" surfaces from the abuse of everyday traffic, road maintenance equipment and harsh salt applications - all with the look of a decorative finish. Available in a variety of textures and standard or custom colored options.

#### Features:

- The water repellency of a silane with the look of a decorative texture.
- Single-component - no on-site mixing.
- May be applied to fresh "green" concrete in place of standard curing compounds.
- Superb protection from deicing chemicals.
- Superior adhesion, penetration and long-term color retention.
- Quick dry for shorter lane closures and downtimes.
- Helps stop wind driven rain even on the most porous of buildings.
- Excellent self-cleaning properties.

### USES:

Suitable for use on above-grade vertical applications including concrete, masonry, block, brick or precast panels. Ideal for on-grade or near-road areas such as J barriers, Type A median barriers, F rail, decorative rail, parapet walls and areas subjected to harsh conditions due to deicing salts, road maintenance equipment and everyday traffic.

### APPLICATION PROCEDURES:

#### PREPARATION:

Proper preparation of the surface is critical to the long-term performance of TK-TRI-METHOXANE 2300. All surfaces must be dry, sound and in stable condition and must be free from form oils, waxes, curing compounds, efflorescence, paint or previous coatings. All patching and sack rubbing must be complete, be in sound condition and exhibit no dusting.

Surfaces should be water blasted using a minimum 3000 PSI spray. If previous coatings are still present or if the surface still appears to be sealed, a light sandblast or brushblast may be required.

When applying over fresh or green concrete as a curing compound, allow any bleed water to dissipate before application of TK-TRI-METHOXANE 2300.

#### APPLICATION:

A test area of 50 square feet should be applied to the prepared surface to check for surface qualification, adhesion and color approval before proceeding with full application.

TK-TRI-METHOXANE 2300 may be applied by brush, roller or spray. Generally only one coat is required, however, block buildings and very porous surfaces may require multiple coats.

### TECHNICAL DATA

Composition and Materials:	A blend of proprietary resins including methyl acrylics and silanes.
A.I.M. Category:	Waterproofing Sealer, Concrete/Masonry Maximum VOC 600 g/l
Total Solids (Solids by Mass) <b>ASTM D5095:</b>	72%
VOC Content <b>ASTM D3960:</b>	388 g/L
Viscosity (Stormer @ 25°C) <b>ASTM D562:</b>	102 KU
Sag Resistance <b>ASTM D4400:</b>	39 mils
Minimum Dry to Touch (Concrete) <b>ASTM D1640:</b>	1 hour, 25 minutes
Minimum Dry to Handle (Concrete) <b>ASTM D1640:</b>	2 hours, 25 minutes
Initial Gloss at 60°:	3% flat

### PERFORMANCE TESTING DATA (as conducted by an independent testing firm)

Chloride Ion Penetration (Reduction %) <b>AASHTO T259 &amp; T260:</b>	87%
Moisture Vapor Transmission <b>NTPEP Procedure:</b>	0.213 MVT Breathable

### UV EXPOSURE ASTM D 4587

Color Retention:	0.84 DE (@ 2504 hours)
60% Gloss Retention:	71.50%
Blistering ( <b>ASTM D714:</b> )	0 (No Blistering @ 2504 hours)
Effluorescence ( <b>ASTM D7072:</b> )	None (@ 2504 hours)
Fungal Resistance ( <b>ASTM D3273:</b> )	10 (No Fungal Growth @ 2504 hours)

Adhesion to Concrete <b>ASTM D7234:</b>	Pre-UV Exposure Post-UV Exposure	638.8 psi 842.2 psi
Adhesion to Concrete over Repaired Defects <b>ASTM D7234:</b>	Pre-UV Exposure Post-UV Exposure	594 psi 668 psi
Resistance to Freeze/Thaw Cycles AASHTO T161 & Adhesion to Concrete <b>ASTM D7234:</b>	Pre-Freeze/Thaw Exposure Post-Freeze/Thaw Exposure	638.8 psi 352.4 psi

\*PERFORMANCE TESTING DATA CONTINUED ON PAGE 2\*

**COVERAGE:**

Typical coverage rate is approximately 100 square feet per gallon.

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 tools and equipment with xylol immediately following application.

**LIMITATIONS:**

- Do not apply over sealants or flexible attachments.
- Do not apply to frozen or frost covered surfaces.
- Air temperature must be above freezing and must remain so for seven (7) days following application.
- Avoid application when rain is forecast within 24 hours of application or during windy 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-TRI-METHOXANE 2300 is available through TK Distributors. Contact TK Products for the nearest distributor.

Available in four texture grades:

- Smooth (TK-2300-0)
- Fine (TK-2300-2)
- Medium (TK-2300-3)
- Coarse (TK-2300-4)

Available in standard or custom colored options. Please submit color standards for pricing.

Packaged in 55-gallon drums and 5-gallon pails.

FOR PROFESSIONAL USE ONLY

<b>PERFORMANCE TESTING DATA</b> (as conducted by an independent testing firm)	
Resistance to Freeze/Thaw Cycles AASHTO T161 & Adhesion to Concrete over Repaired Defects <b>ASTM D7234:</b> Pre-Freeze/Thaw Exposure Post-Freeze/Thaw Exposure	594 psi 454.7 psi
Scaling Resistance <b>ASTM C 672:</b>	No scaling @ 50 cycles
Pull-Off Adhesion Strength <b>ASTM D 7234:</b>	320 psi
Water Retention <b>ASTM C 156:</b>	.444 kg/m <sup>2</sup>

<b>Overcoatability and Graffiti Resistance (Hiding Power)</b> NTPEP Procedure:	
NTPEP Procedure: Over Spray Paint Over Marker 60° Gloss Retention Over Spray Paint Over Marker	0.60 DE (@ 2504 hours + 30 day cure) 0.69 DE (@ 2504 hours + 30 day cure) 191.50% (@ 2504 hours + 30 day cure) 193.60% (@ 2504 hours + 30 day cure)

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**TK Products Construction Coatings**

11400 West 47th Street Minnetonka, MN 55343  
800-441-2129 toll free | 952-938-8084 fax | www.tkproducts.com