

TK-TRI-SILOXANE 290 VOC

Deep Penetrating Water Repellent

Item No. TK-290 VOC

PRODUCT DESCRIPTION

TK-TRI-SILOXANE 290 VOC is a low viscosity, breathable, deep penetrating water repellent for concrete and masonry. Through the process of hydrolysis, TK-TRI-SILOXANE 290 VOC chemically bonds with the surface to form a protective barrier that is far superior to traditional penetrating water repellents.

Features:

- Forms a chemical, and permanent, bond with the substrate to provide ultimate protection against damage due to water and deicing chemical intrusion, acid rain, freeze/thaw exposure, airborne dirt, smog, industrial fumes and most other atmospheric chemicals.
- Penetrates up to 1/4" and eliminates surface moisture which can lead to spalling, freeze damage and rebar corrosion.
- Outperforms typical water repellents which can only bond physically with the surface and thus provide marginal protection.
- The coating is colorless, non-staining and non-yellowing.

USES:

Suitable for vertical or horizontal use on exterior above-grade concrete, burnish block, CMU, single wythe, masonry or cementitious surfaces. Applications include parking structures, bridge decks, piers and ramps, natural and synthetic stone, precast concrete and poured concrete walls.

APPLICATION PROCEDURES:

PREPARATION:

Before using this product, read the Safety Data Sheet for complete safety information.

All surfaces to be treated must be clean and structurally sound. Thoroughly clean surfaces to remove all grease, oils, form oils or other contaminants. Best results are obtained by applying TK-TRI-SILOXANE 290 VOC to dry surfaces. It is recommended that surface temperatures be 40°F or above at the time of application to ensure that surfaces are frost-free.

Existing Concrete preparation - Unsound concrete should be removed and cracks or deteriorated areas repaired prior to application. Surfaces may need to be mechanically abraded to achieve maximum penetration.

New Concrete Preparation: Water cure fresh concrete. As a standard procedure, allow new concrete to thoroughly cure (typically 14-28 days) before applying this product.

A test patch should always be performed to determine proper results and coverage rates prior to application.

TECHNICAL DATA

Composition and Materials:	An oligomeric, organosiloxane water repellent.
Density:	6.72 lbs
Flash Point:	58°F
VOC Content**:	< 120 g/l
A.I.M. Category:	Low Solids Coating Maximum VOC 120 g/l
OTC Category (Phase II):	Reactive Penetrating Sealer Maximum VOC 350 g/l
Applicable Standards:	- ASTM C666 Resistance of Concrete to Rapid Freezing and Thawing - ASTM C672 Scaling Resistance - NCHRP 244 (water absorption, % water vapor transmission and % reduction in chloride intrusion)

TYPICAL PROPERTIES

TK-TRI-SILOXANE 290 VOC is characterized by the following properties:

- Excellent penetration
- High alkali resistance and suitability for either alkaline or neutral substrates
 - Low volatility
 - Dries tack free
- Provides early water repellency
- Exhibits droplet effect

MIXING:

The material is ready for use and requires no mixing or dilution. It is unlawful to further dilute with non-exempt solvents.

APPLICATION:

Apply by roller or spray equipment in a uniform manner and in sufficient quantity to completely wet out the substrate with a minimum of 2" run down. The recommended coverage rate for most concrete substrates is 125 square feet per gallon. Very porous surfaces may require two coats.

CLEAN UP:

Use TK-00 XYLENE* where allowed, otherwise use TK-ECU Exempt Clean-up Solvent* to clean tools and equipment. Pump solvent through the sprayer to remove residue of materials which can clog the hose and wand assembly.

COVERAGE:

The recommended coverage rate for most concrete substrates is 125 square feet per gallon. Very porous surfaces may require two coats.

Surface	Coverage
Bridge decks/ramps	100-200 square feet/gallon
Smooth concrete	150-250 square feet/gallon
Exposed aggregate:	100-200 square feet/gallon
Concrete block:	40-100 square feet/gallon

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

MAINTENANCE:

If wear patterns occur, TK-TRI-SILOXANE 290 VOC may be reapplied to affected areas.

LIMITATIONS:

- Do not use below-grade or under hydrostatic pressure.
- Do not apply if rain is expected within 4-6 hours of application.
- Application to inappropriate or non-compatible substrates may affect adhesion of subsequent coatings.
- Use with adequate ventilation.
- Not suitable for use on gypsum.
- Product will freeze in temperatures below 34°F. If frozen, allow to warm to 40°F and stir prior to use.

PROTECTION OF VEGETATION, GLASS AND ALUMINUM SURFACES:

Avoid contact with live vegetation, glass and aluminum. If properly protecting these surfaces is impractical, the following steps should be performed:

- 1) Minimize contact of TK-TRI-SILOXANE 290 VOC with live vegetation, glass and aluminum surfaces.
- 2) If TK-TRI-SILOXANE 290 VOC comes into contact with glass or aluminum, thoroughly clean surfaces with Windex® or an ammonia cleaner while the material is still wet.

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-SILOXANE 290 VOC is available through TK Distributors. Contact TK Products for the nearest distributor.

Packaged in 55-gallon drums, 5-gallon pails and 1-gallon cans.

FOR PROFESSIONAL USE ONLY

NOTES:

- *TK-00 XYLENE must be purchased separately
- *TK-ECU Exempt Clean-up Solvent must be purchased separately

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