

### PRODUCT DESCRIPTION

TK-290 WB is a water-borne silane/siloxane concrete and masonry water repellent to prevent water damage by eliminating moisture present on the surface. TK-290 WB penetrates up to 1/4" and chemically bonds with the substrate to become a permanent part of the concrete, prohibiting water and chloride ion intrusion that could cause surface deterioration.

#### Features:

- Very low VOC's (Volatile Organic Compounds).
- 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 above-grade exterior surfaces, vertical or horizontal. Use to protect any concrete, burnish block, CMU, single wythe, masonry or cementitious surface. Applications include parking structures, bridge decks and ramps, piers and pilings, precast concrete, poured concrete walls, natural and synthetic stone, burnish block, split face block, stucco and clay brick.

\* This product is not suitable for use on gypsum, glazed brick or block which will be painted over.

### 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. TK-290 WB should be applied to dry surfaces only. 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. The product may be applied sooner under prescribed conditions and procedures specified by TK Products.

### TECHNICAL DATA

Composition and Materials:	A water borne, silane/siloxane water repellent.
Density:	6.72 lbs
Flash Point:	40°F
VOC Content**:	< 120 g/l
A.I.M. Category:	Low Solids Coating Maximum VOC 120 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-290 WB 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

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

#### MIXING:

The material is ready for use and requires no mixing. Do not thin or dilute.

#### 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. Avoid puddling on horizontal surfaces. Very porous surfaces may require two coats.

Decorative Block application - When applying to decorative block or substrates where darkening of the surface is undesirable, fully saturate the surface with no rundown.

#### CLEAN UP:

Clean tools, equipment and spills with soap and water before the material dries.

**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-290 WB may be reapplied to affected areas.

**LIMITATIONS:**

- KEEP FROM FREEZING.
- Do not use below-grade or under hydrostatic pressure.
- Do not apply if rain is expected within 4-6 hours of application.
- Over application may cause darkening or discoloration of the surface.
- Application to inappropriate or non-compatible substrates may affect adhesion of subsequent coatings.
- Use with adequate ventilation.
- May leave a waxy coating if over-applied or applied over sealed surfaces.
- Not suitable for use on gypsum.

**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-290 WB with live vegetation, glass and aluminum surfaces.
- 2) If TK-290 WB 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.

**CONDITIONS OF SALE/ LIMITED WARRANTY**

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**AVAILABILITY:**

TK-290 WB 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-DC WB DISSIPATING CURING COMPOUND 2519 must be purchased separately

