

**COLORADO DEPARTMENT OF TRANSPORTATION  
PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY**

APL Reference No.

**5056-20**

Product Evaluation Coordinator  
Colorado Department of Transportation  
4670 North Holly Street, Unit A  
Denver, Colorado 80216

Material code:  
**515.03.01.00**

Material code description full name:  
**Sealer, Concrete**

**PART 1**

Product name: <b>TK-590-90</b>	Product category: <b>Waterproofing/PCCP Sealer/Alky-alkoxy Silane</b>
Product Representative (name & address): Attn: <b>Andrew Piccarelli</b>  TK Products 11400 West 47th Street Minnetonka, MN 55343 Phone: (352) 457-9035 E-mail: <a href="mailto:apiccarelli@fenixspc.com">apiccarelli@fenixspc.com</a>	Manufacturer (name & address): Attn: <b>Michael Grivna</b>  TK Products 11400 West 47th Street Minnetonka, MN 55343 Phone: (952) 641-0740 E-mail: <a href="mailto:mgrivna@fenixspc.com">mgrivna@fenixspc.com</a>
Web-site address: <a href="http://tkproducts.com">tkproducts.com</a>	Web-site address: <a href="http://tkproducts.com">tkproducts.com</a>

**Description of the product:** (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)  
TK-TRI-SILANE 590-90 is a one component, deep penetrating, reactive water repellent consisting of a high silane active content in mineral spirits for protecting concrete and masonry. Through the process of hydrolysis, TK-TRI-SILANE 590-90 chemically bonds with the surface to form a protective barrier that is far superior to traditional penetrating water repellents. 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 pilings, bridge seats and commercial/warehousing floors. TK-590-90 is supplied at a low VOC that complies with OTC and LADCO regulations.

**Restrictions,** (installation and/or use):  
Concrete must cure 28 days, do not use if rain is expected within 4 hours, substrate and ambient temperature must be between 20°-90°F.

**Use of the product,** (be specific to CDOT highway activities only):  
Bridge decks, median barriers, parking structures, ramps

**Benefits to CDOT,** (how will your product enhance quality, improve safety, save money, be a better value than other manufacturer's products):  
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. The coating is colorless, non-staining and non-yellowing.

**Specifications:** (listing those applicable is required)  
 CDOT : 515.03  
 ASTM : C-672  
 AASHTO: T-259, T-260  
 FHWA :  
 other :

Certificate of Compliance (COC) provided  Certificate of Verification (COV) provided for select categories ONLY

**Product Testing:** (National/independent laboratories or universities with Report Date.) **Certified Test Report (CTR)** provided to validate all claims.  
 NTPEP-AASHTO:  
 FHWA :  
 other : Nelson Labs Report 1181-13  
 other :  
 other :

**State DOT Approvals,** (current documentation required): **Illinois, Wisconsin** Expiration Date **4 Years / 03-30-2024**

Sample submitted:  yes  no  n/a Safety Data Sheets (SDS):  yes  no  n/a

Alternate Product Category:  
Additional Comments: