

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

APL Reference No.

5057-20

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: TK-590-1MS	Product category: Waterproofing/PCCP Sealer/Alky-alkoxy Silane
Product Representative (name & address): Attn: Andrew Piccarelli TK Products 11400 West 47th Street Minnetonka, MN 55343 Phone: (352) 457-9035 E-mail: apiccarelli@fenixspc.com	Manufacturer (name & address): Attn: Michael Grivna TK Products 11400 West 47th Street Minnetonka, MN 55343 Phone: (952) 641-0740 E-mail: mgrivna@fenixspc.com
Web-site address: tkproducts.com	Web-site address: tkproducts.com

Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
 TK-TRI-SILANE 590-1 MS is a one component, deep penetrating, reactive water repellent consisting of silane 40% active in mineral spirits for protecting concrete and masonry. Through the process of hydrolysis, TK-TRI-SILANE 590-1 MS 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, CMU, or cementitious surfaces. Applications include parking structures, bridge decks, piers and pilings, bridge seats.

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 :
 - AASHTO: T-259, T-260
 - FHWA :
 - other : NCHRP 244 Series II & IV, Alberta DOT BT001, BT002

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 : CTL Laboratories, Report 056093, 401387, 401363
- other : AMEC
- other :

State DOT Approvals, (current documentation required): **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: