TECHNICAL DATA

<table>
<thead>
<tr>
<th>Composition and Materials:</th>
<th>100% reactive alkylalkoxy silane.</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Actives:</td>
<td>40%</td>
</tr>
<tr>
<td>Weight per gallon:</td>
<td>6.9 lbs.</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>16-18 sec. Zahn #2</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>102°F</td>
</tr>
<tr>
<td>VOC Content:</td>
<td>600 g/l</td>
</tr>
<tr>
<td>A.I.M. Category:</td>
<td>Waterproofing Sealers and Treatments Maximum VOC 600 g/l</td>
</tr>
</tbody>
</table>

APPLICABLE STANDARDS

- ASTM 672-98: Scaling Resistance to Deicing Chemicals
- AASHTO T-259/260: Chloride Penetration
- NCHRP #244, Series II & IV: Chloride Ion Intrusion

TYPICAL PROPERTIES

TK-590-40 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
- Will not etch glass

MIXING:
The material is ready for use and requires no mixing. Do not dilute.

APPLICATION:
Apply by roller, brush or spray equipment in a uniform manner and in sufficient quantity to completely wet out the substrate. Ensure complete coverage and saturation by maintaining surface moisture briefly. Any puddles should be broomed out. When applying to vertical surfaces, apply a light spray to break the surface tension of the wall and follow immediately with a flood coat. Apply horizontally with plenty of overlap and enough material to create a 6-8” rundown. Fully saturate all mortar joints.

CLEAN UP:
Clean tools, equipment and spills with TK-00 XYLENE*.
The recommended coverage rate for most concrete substrates is 125 square feet per gallon. Very porous surfaces may require two coats.

<table>
<thead>
<tr>
<th>Surface</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge decks/ramps</td>
<td>150-250 square feet/gallon</td>
</tr>
<tr>
<td>Resealing bridge decks/ramps</td>
<td>150-300 square feet/gallon</td>
</tr>
<tr>
<td>Smooth concrete</td>
<td>150-225 square feet/gallon</td>
</tr>
<tr>
<td>Exposed aggregate</td>
<td>100-200 square feet/gallon</td>
</tr>
<tr>
<td>Concrete block</td>
<td>50-100 square feet/gallon</td>
</tr>
<tr>
<td>Brick/stone</td>
<td>60-200 square feet/gallon</td>
</tr>
</tbody>
</table>

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-SILANE 590-40 may be reapplied to affected areas.

LIMITATIONS:
- Do not use below-grade or under hydrostatic pressure.
- Minimum cure temperature is 35°F.
- 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.

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-SILANE 590-40 is available through TK Distributors. Contact TK Products for the nearest distributor.

Also available in Isopropyl Alcohol (TK-590-40 IPA), and 20% active solids (TK-590-20*) formulations.

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

*TK-590-20 formulation exceeds maximum VOC content limits set by the EPA, and will require an exceedance fee.

FOR PROFESSIONAL USE ONLY

NOTES:
*TK-00 XYLENE must be purchased separately

TK DISCLAR:  

Every effort has been made to ensure the accuracy of the above information and to avoid infringement of any patent or copyright. The information is based on field tests by government and private agencies, as well as lab tests, and on technical data from raw material manufacturers. The person(s) specifying or requesting the use of these products is responsible for assuring their suitability for a specific use, as well as the proper application of the products. Where there is any question as to the suitability of a particular product, a small test patch is recommended. See also CONDITIONS OF SALE/ LIMITED WARRANTY (Section 7) above.