ONE STEP™
PRODUCT DATA SHEET

PRODUCT DESCRIPTION

TK-ONE STEP is a clear, penetrating, acrylic copolymer, siloxane blend, that acts as an easy single-step application to cure, seal, and weather proof new and existing concrete. TK-ONE STEP eliminates excess steps for curing and protecting concrete, allowing faster return to service for the treated areas, when compared to traditional curing or sealing products. Additionally, the siloxane addition improves the concrete's water repellency, protecting it against the detrimental effects of freeze/thaw cycles and salt intrusion.

USES:

- Fresh or Existing Concrete
- Architectural and Decorative Concrete
- Pavers / Brick / Block
- Stone
- Industrial
- Commercial
- Residential
- Transportation and Infrastructure
- Meat, Poultry, and Food Processing Plants
- Warehousing, Storage, and Business Parks
- Basement Floors, Driveways, Sidewalks, and Patios
- Parking Ramps and Garages
- Concrete Ramps and Bridge Decks

BENEFITS:

- Non-yellowing
- Faster turnaround with reduced material and labor costs.
- Excellent water repellency and resistance to salt, oil, grease, and stains.
- Protects against freeze/thaw damage.
- Complies with ASTM C-1315, Type 1, Class A, B, & C

APPLICATION PROCEDURES

Preparation:

Surfaces must be clean, dry, and free from oil, grease, dust, or dirt. At this point, a small test area should be applied in an inconspicuous location to test the compatibility of the coating with the prepared substrate. Allow the coating to dry and cure fully, then inspect for proper film formation, gloss, adhesion and confirm that the film is free from whitening or any other defects.

Mixing:

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

Application:

TK-ONE STEP WILL DARKEN CONCRETE.

New Concrete Application: Finish trowel and allow surface water to completely dissipate. Immediately apply the product once surface water has dissipated. Use a low pressure (20 to 30 lbs.) sprayer or power sprayer and apply uniformly at the specified rate of coverage. Avoid heavy accumulations.

Existing Concrete Application: Use a long nap applicator or a paint roller to distribute the compound more evenly. Back rolling is highly recommended. Avoid heavy accumulations. An airless sprayer or low-pressure spray equipment may be used on larger application areas. A second coat should be applied to surfaces that are very porous and where absorption is rapid. Allow the coating to become tack-free between coats.

CLEAN UP

Use TK-00 XYLENE* to clean tools and equipment. Pump solvent through the sprayer to remove residue of materials which can clog the hose and wand assembly.

COVERAGE

Surface	Coverage
Curing, Broomed:	300 square feet per gallon
Curing, Troweled:	350 to 550 square feet per gallon
Dustproof/Seal:	300 to 500 square feet per gallon
Second Coat:	400 to 800 square feet per gallon
Renovation:	300 to 400 square feet per gallon

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

MAINTENANCE

Other than occasional sweeping, dusting, or mopping, minimal maintenance is required. If wear patterns do occur or if spillage removes the coating, TK-ONE STEP may be reapplied to the affected area.

LIMITATIONS

- Apply in temperatures above 40°F. Colder weather applications may be made under prescribed conditions and procedures specified by TK Products.
- Not for use on asphalt or surfaces subjected to immersion or constant liquid contact.
- Not for use where spillage of solvents, fuels, brake, transmission or hydraulic fluids, etc. are expected.
- Sprayers must be equipped with neoprene hose, washers and gaskets. Rubber or other materials will disintegrate from the solvent.
- This product is to be applied according to recommended coverage rates as over-application may cause discoloration.
- Material will not freeze and may be stored outdoors in cold weather; however, it must be allowed to warm to approximately 50°F before use.

Note 1. Concrete containing calcium chloride will remain dark longer when sealed. Extenders and additives (concrete admixes, fly ash) are now being added to some ready-mixed concrete which can cause inconsistency in the porosity of the concrete. Some areas of the finished concrete may then appear darker than others. To compensate for these variations, coverage ratios should be adjusted.

Note 2. Popout problems can occur anytime, however, concrete in certain regional areas, concrete applied in extremely hot conditions (90°F+), and heavily steel troweled concrete can aggravate popout problems. These deficiencies are the result of a heat caused reaction, called alkaline silica reactivity (ASR), between the silica in the shale particles of the fine aggregate with the sodium and potassium alkali in the Portland cement. For more information on this problem, refer to "POPOUTS" by Norman E. Henning, P.E. and Kenneth L. Johnson, P.E. of Twin City Testing and Engineering Laboratory and Lowery J. Smith of the J.L. Shiely Company. Where this type of shale is present, and extremely hot weather conditions prevail, it is recommended that liquid membrane curing compounds should not be used until the concrete has been completely cured by water ponding, continuous water spray mist, or wet burlap covering for a period of three days. A seal coat can then be applied for dustproofing and protection when concrete is completely dry.

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.

NOTES

*TK-00 XYLENE must be purchased separately

REVISIONS

LAST: 03/15
PREVIOUS: 09/14

TECHNICAL DATA

Composition and Materials:	A clear, acrylic, copolymer resin with siloxane blended with fast drying aromatic hydrocarbon
Percent Solid:	28%
Flash Point:	> 100°F
Moisture Efficiency:	.18 kg/m2 at 300 ft2/gallon (max allowed .40 kg/m2 per ASTM C-1315)
Drying Time:	Tack free: 1 hour Open to Traffic: 2 hours Full Cure: Overnight
VOC Content:	< 700 g/l
A.I.M. Category:	Curing and Sealing Compound
Maximum VOC:	700 g/l
Applicable Standards:	- ASTM C-1315, Type 1, Class A, B, & C - ASTM C-309, Type 1, Class A & B and Type 1D with a red dye added - Fed. TTC-C-800A, Type 1, Class 1 - AASHTO Des. M-148., Type 1, Clear USDA Authorization for use in meat, poultry, and food processing plants

MANUFACTURER'S PART #'S

Size	Item Code
55-GALLON	TK-ONE STEP 55 CL.HD. L
5-GALLON	TK-ONE STEP 5 L PHEN PS

VOC REGULATORY COMPLIANCE

AIM	OTC	LADCO	CARB	SCAQMD	CANADA
✓					