



VOC Regulatory Compliance:



ISO 9001 CERTIFIED

# TK-KURE & SEAL VOC

## Curing and Sealing Compound

Item No. TK-K&S VOC

### PRODUCT DESCRIPTION

TK-KURE & SEAL VOC is a solvent based, clear acrylic resin for curing, sealing and hardening new or existing concrete and masonry surfaces.

#### Features:

- Good moisture retention and protection against abrasion.
- Resistance to damage caused by salt, oil, grease, mild acids and alkali, and stains from soot, smog, fumes and gases.
- Penetrates into the surface and binds together the small dusting particles, filling the voids to produce a hard, dust-free and brighter surface.
- Construction debris will not adhere to the surface, making cleanup easier and less costly.
- Dries clear and resists yellowing.
- Highlights the natural colors and increases the aesthetic value on terrazzo, brick, stone and decorative concrete surfaces.

#### USES:

Suitable for exterior use on new or existing architectural concrete, burnish block, terrazzo, brick, stone, slate, quarry tile or other cementitious materials. Ideal for commercial and industrial work in public buildings, showroom floors, shopping centers, schools, hospitals, warehousing and residential applications including driveways, basement floors, sidewalks, patios and swimming pool areas.

### APPLICATION PROCEDURES:

#### PREPARATION:

Surfaces must be clean, dry and free of form oils, grease, dust, frost and curing compounds (particularly wax based). Large areas may be blown dust free by compressed air, washed and let dry. Surface water must be allowed to completely dissipate before applying.

At this point a small mock-up 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-KURE & SEAL VOC WILL DARKEN CONCRETE.

#### New Concrete -

Finish trowel and allow surface water to completely dissipate. Use a low pressure (20-30 lbs.) sprayer or power sprayer and apply uniformly at the specified rate of coverage. Avoid heavy accumulations. DO NOT OVER APPLY.

### TECHNICAL DATA

Composition and Materials:	An acrylic copolymer resin blended with fast drying aromatic hydrocarbon
Flash Point:	-15°F
Moisture Efficiency:	.31 kg/m <sup>2</sup> at 200 square feet per gallon
Drying Time Tack Free: Open to Traffic:	1 hour 2 hours
VOC Content:	< 350 g/l
A.I.M. Category:	Concrete Curing Compound Maximum VOC 350 g/l
Applicable Standards:	- ASTM C-309, Type I, Class A & B and Type 1D with a red dye added. - Fed. TTC-C-800A, Type I, Class I - AASHTO Des. M-148, Type I, Clear - USDA Authorization for use in meat, poultry and food processing plants. - Resilient Tile Institute approval for compatibility with most resilient tile, carpet adhesives and paints.

#### Existing Concrete -

Roller application: Use a short 3/8" nap applicator or paint roller to distribute the compound more evenly. Maintain a wet edge while applying to avoid lap marks. Keep a pan of TK-KURE & SEAL VOC nearby that the roller can be dipped in occasionally to maintain moisture. Do not roll back and forth excessively as this can cause air bubbles. As this is a fast drying product, do not roll back into product that is already drying and apply only to one small area at a time. Cool or overcast days work best for roller application as this allows for more working time.

Sprayer application: An airless sprayer or low pressure spray equipment may be used for larger areas but do avoid heavy accumulations.

DO NOT OVER APPLY. On very porous surfaces where absorption is rapid, a second coat should be applied. 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:	Troweled	200-300 sq.ft./gal
	Broomed	150-250 sq.ft./gal
	Dustproof/	200-400 sq.ft./gal
Seal		400-600 sq.ft./gal
	Second Coat	
Renovation:	Dustproof/Seal	200-300 sq.ft./gal

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

**MAINTENANCE:**

Minimal maintenance is required other than occasional sweeping, dusting or mopping. If wear patterns do occur or if spillage removes the coating, TK-KURE & SEAL VOC may be reapplied to the affected area(s).

**LIMITATIONS:**

- Recommended for outdoor use only.
- 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 liquid immersion or constant liquid contact.
- Sprayers must be equipped with neoprene hose, washers and gaskets as rubber or other materials will disintegrate from the solvent.
- 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.
- This product is to be applied according to recommended coverage rates as over-application may cause discoloration.

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

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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.

**AVAILABILITY:**

TK-KURE & SEAL VOC 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-00 XYLENE must be purchased separately

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**TK Products Construction Coatings**

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