

TK-ONE STEP VOC

Curing, Sealing and Hardening Compound

Item No. TK-ONE STEP VOC

PRODUCT DESCRIPTION

TK-ONE STEP VOC is a clear methacrylate/acrylic copolymer that acts as a one-step application for curing, sealing and hardening new or existing concrete and masonry surfaces. TK-ONE STEP VOC is also formulated with siloxane for water repellency.

Features:

- 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.
- Siloxane penetrates into the surface to provide water repellency and protect against moisture damage and degradation.
- Construction debris will not adhere to the surface, making cleanup easier and less costly.
- Highlights the natural colors and increases the aesthetic value on terrazzo, brick, stone and decorative concrete surfaces.

USES:

Suitable for interior or exterior use new and existing concrete and masonry surfaces such as: brick, stone, architectural concrete and other cementitious materials. Ideal for commercial and industrial work on public buildings, showrooms, shopping centers, schools, hospitals, manufacturing plants, warehousing, and residential work on driveways, basement floors, sidewalks, patios and swimming pool areas.

APPLICATION PROCEDURES:

PREPARATION:

Surfaces must be clean, dry and free from oil, grease, dust or dirt. 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-ONE STEP VOC 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 (20-30 lbs) sprayer or power sprayer and apply uniformly at the specified rate of coverage (below). Avoid heavy accumulations.

TECHNICAL DATA

Composition and Materials:	A methacrylate/acrylic copolymer resin with siloxane blended with fast drying aromatic hydrocarbon.
Flash Point:	58°F
Moisture Efficiency:	.18 kg/m ² at 300 ft ² /gallon
Drying Time:	1 hour
Tack Free:	2 hours
Open to Traffic:	
VOC Content:	< 350 g/l
A.I.M. Category:	Waterproofing Concrete/Masonry Sealers Maximum VOC 600 g/l
OTC Category (Phase II):	Concrete Curing Compound Maximum VOC 350 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. - Resilient Tile Institute approval for compatibility with most resilient tile, carpet adhesives and paints.

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. Surfaces that are very porous and where absorption is rapid should be applied with a second coat. Allow the coating to become tack free between coats.

CLEAN UP:

Use TK-00 XYLENE* where allowed, otherwise use TK-ECU Exempt Clean-up Solvent* 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 sq.ft./gal
Troweled	350-550 sq.ft./gal
Dustproof/Seal:	300-500 sq.ft./gal
Second Coat:	400-800 sq.ft./gal
Renovation:	
Dustproof/Seal	300-400 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-ONE STEP VOC may be reapplied to the affected area(s).

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 as 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.
- Product will freeze in temperatures below 34°F. If frozen, allow to warm to 40°F and stir prior to 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.

AVAILABILITY:

TK-ONE STEP 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

*TK-ECU Exempt Clean-up Solvent must be purchased separately

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