TK® PRODUCTS
CONCRETE TREATMENTS & COATINGS

Division of Sierra Corporation
ISO 9001:2008 CERTIFIED

VOC Regulatory Compliance: ☑ AIM ☑ OTC ☑ LADCO ☑ CARB ☐ SCAQMD ☑ CANADA

TK-ACHRO SEAL AS-1 VOC

Curing and Sealing Compound

Item No. TK-AS-1 VOC

PRODUCT DESCRIPTION

TK-ACHRO SEAL AS-1 VOC is is a high quality, clear, curing, sealing and hardening compound for new or existing concrete and masonry. The 18% solids and high quality acrylic/methyl methacrylate resin make this the premier cure & seal on the market.

Features:

- Penetrates into the surface and binds together the small dusting particles, filling the voids to produce a hard, dust-free and brighter surface.
- Maximum resistance to abrasion and damage caused by salt, oil, grease, mild acids/alkali, stains from soot, smog and gases, and ultraviolet rays.
- Construction debris will not adhere to the surface, making cleanup easier and less costly.
- Decreases the need for costly repair work and extends the life of the surface.
- Highlights the natural colors and increases the aesthetic value on terrazzo, brick, stone and decorative concrete surfaces.
- Dries clear and does not yellow with age.

USES:

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

TECHNICAL DATA

Composition and Materials: A clear methacrylate/acrylic copolymer resin blended with fast drying aromatic hydrocarbon. No fillers are used and there are no oils, waxes or saponifiable resins. TK Products are manufactured with only the finest quality raw materials available and close quality-control is practiced.

Percent Solids:	18%
Flash Point:	58°F
Moisture Efficiency:	.18 kg/m^2 @ 200 ft^2/gallon
Drying Time Tack Free: Open to Traffic:	 1 hour 2 hours
VOC Content:	< 350 g/l
A.I.M. Category:	Curing and Sealing Compound Maximum VOC 700 g/l
OTC Category:	Concrete Curing Compound Maximum VOC 350 g/l
Applicable Standards:	-ASTM C-309, Type 1, Class A -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.

APPLICATION PROCEDURES:

PREPARATION:

Surfaces must be clean, dry and free of oil, grease, soil, efflorescence, dust or laitance. Power washing of the surface is advised and any repairs must be made prior to application. Once the surface has been cleaned, it must be dried and any rinse water should be removed by flushing down a drain (if permitted) or with a vacuum. A simple test to ensure proper dryness is to place a rubber mat on the floor overnight. If no visible moisture or darkening of the mat is observed, then the surface is dry enough to coat.

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-ACHRO SEAL AS-1 VOC WILL DARKEN CONCRETE.

New Concrete Application - 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 (below). Avoid heavy accumulations.

Existing Concrete Application - If applying by sprayer, use low pressure spray equipment with neoprene fittings. If applying by roller, a short 3/8" nap should be used. Keep the roller wet by placing in a pan TK-AS-1 VOC or TK-00 XYLENE*. Maintain a wet edge to avoid lap marks and do not roll back and forth excessively as this may cause air bubbles. As this is a fast drying product, only apply in small sections at a time and avoid back rolling into product that is already drying. Cooler and/or overcast days work best for roller application. 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. Avoid heavy accumulations.

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 Troweled	250-350 sq.ft./gal 300-450 sq.ft./gal
Dustproof/Seal: Second Coat:		250-400 sq.ft./gal 300-600 sq.ft./gal
Renovation:	Dustproof/Seal	250-350 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-ACHRO SEAL AS-1 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.
- As this is a fast drying product, cooler and/or overcast days work best for roller application.
- 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-ACHRO SEAL AS-1 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

05/15 Last Rev. 02/15

CONDITIONS OF SALE/ LIMITED WARRANTY

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