



# TK-ACHRO SEAL AS-30

## Curing and Sealing Compound

Item No. TK-AS 30%

### PRODUCT DESCRIPTION

TK-ACHRO SEAL AS-30 is a high quality, clear, solvent-based curing, sealing and hardening compound for new and existing concrete and masonry. The 30% solids and high quality acrylic/methyl methacrylate resin make this a premier cure & seal on the market.

#### Features:

- The higher solids content (30%) provides the most effective, curing, sealing and abrasion resistance without sacrificing clarity or brightness.
- Penetrates into the surface, creating an excellent bond that resists stains and foreign matter.
- Excellent resistance to damage caused by salts, deicing chemicals, oil, grease, fumes and heavy smog.
- Protects and dustproofs the surface for easier maintenance and cleaning.
- Increased coverage rate due to the higher solids content.

#### USES:

Suitable for interior or exterior use on new and existing warehouse and industrial floors, paving, parking ramps, bus and freight terminals, walls, columns and terrazzo.

### 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.

*Acid Stained and Acid Etched Floor Preparation* - Special care must be taken to ensure that the substrate has been sufficiently neutralized, rinsed and dried. First, neutralize the surface by scrubbing in a solution of baking soda, sodium carbonate, trisodium phosphate (TSP), or sodium metasilicate, followed by multiple and thorough rinse cycles using clean water. The recommended substrate pH is between 7-9 and should be tested with litmus paper at this time.

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:

Use either a low pressure (30-40 lbs) sprayer equipped with neoprene gaskets, washers and hose or a long napped applicator, roller or brush. Apply uniformly and at a rate to satisfy the porosity of the concrete. Maintain a wet edge and stop at natural break points to eliminate lap marks. Very porous surfaces may require a second coating.

#### CLEAN UP:

Use TK-00 XYLENE\* to clean tools and equipment. Leave approximately 1 pint of solvent in the sprayer when not in use to ensure against hose clogging. For next day use - place nozzle in spray can, pump sprayer to force solvent up the hose and into the handle and wand area. Spray once or twice before application.

### TECHNICAL DATA

Composition and Materials:	A clear methacrylate/acrylic copolymer resin that does not contain waxes or oils.
Flash Point:	105°F
Moisture Retention:	.29 kg/m <sup>2</sup> @ 300 ft <sup>2</sup> /gallon
% Solids by Weight:	30%
Drying Time* (70°F % 50% RH):	1 hour
VOC Content:	< 700 g/l
A.I.M. Category:	Curing and Sealing Compound Maximum VOC 700 g/l
Applicable Standards:	- ASTM C-1315, Type I, Class A, B & C - ASTM C-309, Type I, Class A & B and Type ID with a red dye added - Fed. TTC-C-800A, Type I, Class I - AASHTO Des. M-148, Type I - 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.

\*Cooler temperatures and higher humidity rates will extend dry times

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**COVERAGE:**

Surface	Coverage
New concrete	350-600 sq.ft./gal
Existing concrete	400-600 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.

**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 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.

*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-30 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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