

# AK-2 ACHRO KURE 1315

Meets Federal EPA's VOC Requirements



PRODUCTS

Division of Sierra Corporation  
ISO 9001:2008 Certified

## Technical Data

### 1. PRODUCT NAME

AK-2 ACHRO KURE 1315

### 2. MANUFACTURER

TK PRODUCTS  
DIVISION OF SIERRA CORPORATION  
11400 West 47th Street  
Minnetonka, MN 55343  
952-938-7223  
952-938-8084 (FAX)  
e-mail: [tksales@tkproduct.com](mailto:tksales@tkproduct.com)  
Website: <http://www.tkproduct.com>

### 3. PRODUCT DESCRIPTION

AK-2 1315, a clear, acrylic, copolymer resin curing, sealing and hardening compound for freshly placed and/or existing concrete, terrazzo, brick, stone, architectural concrete and other cementitious materials for either exterior or interior applications.

#### BASIC USES:

##### ON NEW CONCRETE:

AK-2 1315 forms a membrane film which seals in and retains 97.3% of the hydration water to provide maximum hardness of the substrate, resistance to abrasion, damage caused by salt, oil, grease, mild acids and alkali, and stains from soot, smog, fumes and gases. Construction debris does not adhere to the concrete; cleanup is easier, less cost for labor.

The coating is clear, dries clear and resists yellowing. Compatible with many resilient tile and carpet adhesives; improves adhesion efficiency, adds longer life to the floor covering, less repair work, recommended for concrete substrates to be carpeted.

##### ON EXISTING CONCRETE:

AK-2 1315 penetrates into the slab, binding together the small, dusting particles, filling the voids to produce a hard, dust-free, brighter surface; and provides the same compatibility and protective capabilities as on newly placed substrates.

##### ON TERRAZZO, BRICK, STONE OR ARCHITECTURAL CONCRETE:

AK-2 1315 brings out the highlights of the natural colors, increases the

aesthetic value and longevity of the completed project.

Use AK-2 1315 on: Commercial and industrial work, i.e. public buildings, showrooms, shopping centers, schools, hospitals, manufacturing plants, and warehousing; and residential driveways, basement floors, sidewalks, patios, and swimming pool areas.

### 4. TECHNICAL DATA

#### COMPOSITION AND MATERIALS:

AK-2 1315 is an acrylic copolymer resin blended with fast drying aromatic hydrocarbon. No fillers are used and there are no oils, waxes or saponifiable resins contained in the mixture. TK PRODUCTS' materials are manufactured with the finest quality raw materials available and close quality control is practiced.

Flash Point:	105°F
Moisture Efficiency:	.21 kg/m <sup>2</sup> at 300 ft <sup>2</sup> /gallon
ASTM C-1315:	Max. allowed .40 kg/m <sup>2</sup>
Drying Time:	1 hour tack free 2 hours open to traffic

#### APPLICABLE STANDARDS

- ASTM C-1315-95, Type 1, Class A, B, and C.
- ASTM C-309, Type 1, Class A & B and Type 1D with a red dye added.
- Fed TT-C-800A, Type 1 Class 1
- AASHTO Des. M-148, Type 1, Clear.

- A.I.M. Category: Curing and Sealing Compound, maximum VOC 700g/l.

A.I.M. Definition - A liquid membrane-forming compound marketed and sold solely for application to concrete surfaces to reduce the loss of water during the hardening process and to seal old and new concrete providing resistance against alkalis, acids, and ultra violet light, and provide adhesion promotion qualities. The coating meets the requirements of American Society for Testing and Materials (ASTM) C-1315-95, Standard Specification for Liquid Membrane Forming Compounds Having Special

Properties for Curing and Sealing Concrete.

- Approved by the Resilient Tile Institute to be compatible with most resilient tile and carpet adhesives, and most paints.
- USDA authorization for use in meat, poultry and food processing plants.

### 5. APPLICATION PROCEDURES AND INSTRUCTIONS

Before using this product, read the Material Safety Data Sheet for complete safety information. Material Safety Data Sheets are available from TK Distributors, the TK office or the TK website.

#### SURFACE PREPARATION:

Material is ready for use, requires no mixing or dilution. It is unlawful to further reduce with non-exempt solvents.

#### NEW CONCRETE:

Finish trowel and allow surface water to completely dissipate. Use low pressure (20-30 lbs.) sprayer or power sprayer. Apply uniformly at specified rate of coverage. Avoid heavy accumulations.

#### EXISTING CONCRETE:

Must be free of oil or grease and soil. Use a long nap applicator or paint roller to distribute the compound more evenly. Airless sprayer or low pressure spray equipment can be used on larger areas; avoid heavy accumulations. A second coat should be applied on very porous surfaces where absorption is rapid. Allow coating to become tack free between coats.

#### COVERAGE:

SURFACE TYPE	SQ.FT./GAL
Curing	
Troweled	400-550
Broomed	300-450
Dustproof/Seal	300-500
Second coat	400-800
Renovation	
Dustproof/Seal	300-400

\*Coverage rates will always be dependent upon the porosity of the concrete. DO NOT OVER APPLY!

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Curing and Sealing Compound

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#### **LIMITATIONS:**

Apply in temperatures above 40° F. Cold weather applications can be made under prescribed conditions and procedures specified by TK PRODUCTS.

Not for use on colored concrete, asphalt, or surfaces subject to immersion or constant liquid contact.

Sprayers must be equipped with neoprene hose, washers and gaskets; 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 using. AK-2 1315 can darken the appearance of concrete, especially if applied too heavily.

#### **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).

#### **CLEANUP:**

Use TK-00 Solvent. For sprayer, pump the solvent through the spray equipment to remove residue of materials which can clog the hose and wand assembly.

#### **PRECAUTIONS:**

AK-2 1315 contains aromatic hydrocarbon. Keep away from heat and flame. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. Use only with adequate ventilation. Do not breathe vapor or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headaches or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Close container after each use. Avoid contact with eyes, skin, and clothing. Wash after handling. KEEP OUT OF REACH OF CHILDREN. Do not allow vapors to penetrate into foodstuffs. Remove animals from quarters until all fumes have dissipated. AK-2 1315 in its cured state is not toxic.

#### **FIRST AID:**

If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention immediately; for skin, wash thoroughly with soap and water. If swallowed, do not induce vomiting. Call physician immediately.

#### **IN CASE OF FIRE:**

Use foam, CO<sub>2</sub>, dry chemical. Do not use water spray. Generic Name: Petroleum Distillates.

#### **SPILLS OR LEAKS:**

Contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused content in accordance with local, state and federal regulations.

For further safety controls, Material Safety Data Sheets are available from TK Distributors, the TK Office or the TK Website. This information should be read before using this product.

#### **6. AVAILABILITY**

AK-2 1315 is available through TK Distributors. Contact TK PRODUCTS for the nearest distributor.

Packaged in: 55 gal. drums, 5 gal. pails, and one gallon cans.

#### **MAINTENANCE**

Minimal maintenance is required other than normal sweeping, dusting or mopping. If wear patterns do occur, or spillage removes the coating, AK-2 1315 can be reapplied to the affected area.

#### **7. CONDITIONS OF SALE/ LIMITED WARRANTY**

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#### **8. TECHNICAL SERVICES**

The TK office offers assistance with specifications, performance test data and field services.

#### **9. FILING SYSTEMS**

Information Handling Services  
PO Box 1213  
Englewood, CO 80150  
Information Marketing Services  
13271 Northend  
Oak Park, MI 48237

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