



Division of Sierra Corporation
ISO 9001:2008 Certified

AS-1 ACHRO SEAL 1315

Meets Federal EPA's VOC Requirements

Technical Data

1. PRODUCT NAME

AS-1 ACHRO SEAL 1315

2. MANUFACTURER

TK PRODUCTS
DIVISION OF SIERRA CORPORATION
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Minnetonka, MN 55343
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3. PRODUCT DESCRIPTION

AS-1 1315 is a clear, Methacrylate/Acrylic Copolymer resin curing, sealing and hardening compound for freshly placed and/or existing concrete, terrazzo, brick, stone, architectural concrete and other cementitious materials. AS-1 1315 can be used for either exterior or interior applications.

BASIC USES:

NEW CONCRETE:

AS-1 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 and dries clear. It is compatible with many resilient tile and carpet adhesives; improves adhesion efficiency, adds longer life to the floor covering, requires less repair work, recommended for concrete substrates to be carpeted.

EXISTING CONCRETE:

AS-1 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:

AS-1 1315 brings out the highlights of the natural colors, increases the aesthetic value and longevity of the completed project.

Use AS-1 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:

AS-1 1315 is a Methacrylate/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:	>100°F
Moisture Efficiency:	.18 kg/m ² at 300 ft ² /gallon
ASTM C-1315:	Max. allowed .40 kg/m ²
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 buying and using this product, read completely this product's label, technical data sheet and Material Safety Data Sheet (MSDS) available where product is purchased.

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. Back rolling is highly recommended. 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. Approximately 1-2 hour at 70°F. AS-1 1315 will darken concrete.

Coverage Sq. ft./gallon

Curing.....300 - 500
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.

Limitations:

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

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Curing & Sealing Compound



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Not for use on asphalt, or surfaces subject 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 quipped 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.

This product is to be applied according to recommended coverage rates. AS-1 1315 will 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).

Note 3: When using a liquid release other than TK-2090, you must check with the manufacturer to insure proper washing has taken place before using AS 1 1315. If the liquid release has an abundance of oil, it will deter adhesion of the sealer.

When using a powder release, care needs to be taken to insure that the proper amount of release is washed off the surface, or delaminating of the sealer may occur. This happens more often with lighter colors.

Cleanup of Equipment:

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:

AS-1 1315 contains aromatic hydro-carbon. 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. AS-1 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, CO₂, 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 safety controls, Material Safety Data Sheets are available through TK Distributors, the TK Office or the TK Website. This information should be read before using the product.

6. AVAILABILITY

AS-1 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, AS-1 1315 can be reapplied to the affected area.

7. CONDITIONS OF SALE/ LIMITED WARRANTY

TK Products, division of the Sierra Corporation, warrants that its products conform to the label descriptions, are free from manufacturing defects, and are fit for the ordinary purposes for which such

goods are used. Inasmuch as the use of TK Products' product by others and other factors affecting product performance are beyond TK Products' control, TK Products does not guarantee the results to be obtained. There are no warranties except as stated herein, either express or implied, including implied warranties of merchantability or fitness for a particular purpose. SHOULD ANY TK PRODUCTS' PRODUCT FAIL TO GIVE SATISFACTORY RESULTS, TK PRODUCTS WILL REPLACE THE PRODUCT, OR AT ITS OPTION, REFUND THE PURCHASE PRICE. THIS IS THE SOLE AND EXCLUSIVE REMEDY FOR ANY FAILURE OF TK PRODUCTS' PRODUCTS TO PERFORM AS WARRANTED AND SHALL ALSO CONSTITUTE LIQUIDATED DAMAGES IN CASE OF LOSS. UNDER NO CIRCUMSTANCES SHALL THE BUYER BE ENTITLED TO ANY OTHER REMEDY OR DAMAGES. REMEDIES FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE SPECIFICALLY EXCLUDED. TK Products does not authorize any person to assume for it any other liability in connection with the sale or use of its products unless specifically authorized by TK Products in writing.

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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