



VANTEK ALUMA KOTE

PRODUCTION DESCRIPTION

ALUMA KOTE is a one-component, Moisture Cured Polyurethane Coating/Primer. This product has excellent adhesion to sound, properly prepared steel, and other surfaces. This low viscosity, high "wetting" coating undergoes a rapid molecular weight change as it polymerizes into a high molecular weight finish, which provides excellent corrosion resistance and abrasion resistance.

FEATURES

- Primer or Stand-Alone Coating for all types of surfaces
- Excellent "wetting out" properties over prepared steel
- Fast recoating, 1-3 hours (typical)
- Excellent corrosion resistance
- One component, easy to use
- Outstanding abrasion resistance
- Very good weather resistance, 1,200 hours in salt cabinet
- High heat, up to 400°F / 204°C

COLOR FINISH

Aluminum Metallic sheen

PRODUCT USES

Excellent as a universal coating for metal, steel, concrete, wood, fiberglass, plastic, clean or weathered galvanized metal. Also over old coatings and for polyurethane foam protection. For use over sound, tightly adherent rust where only wire brush or hand tool cleaning is feasible and VANTEK RUST STOP is used. For remedial painting of fences, metal buildings, hand and guard rails, pumps, pipelines, grating, and other hard to clean surfaces. VANTEK RUST STOP is recommended for the best sub-coating rust control. Has excellent chemical resistance as a Finish Coat to protect metal, concrete and wood surfaces in agricultural facilities, chemical plants, refineries, pulp and paper mills, waste and water treatment plants, electric generating stations, fertilizer plants, food processing, pharmaceutical, ore processing operations, marine installations, etc.

TECHNICAL DATA

FEATURE	ADVANTAGE
Shelf Life	Minimum of 6 months in unopened containers stored below 90°F / 32°C
Application Temp & Humidity	18°F-140°F @ 50% Relative Humidity (-8°C-60°C)
Mixing Ratio: Hardener to Resin	One component, stir well
Coverage (Theoretical)	200 - 300 sq. ft. per gallon (21.3 - 31.9 m ² per 3.8L) at 2 - 5 mil DFT
Application Method	Roll, brush or spray
Tack Free	1 - 3 hours @ 75°F (24°C)
Recoat	1 - 4 hours @ 75°F (24°C)
Recommended Dry Film Thickness	2-5 mils
Dry Service Temperature	Up to 400°F / 204 °C
Thinning	N1 Solvent or Xylol for spray application - up to 10%
% Solids by Volume	57% by Volume and 63% by weight
Cure Time	@ 75°F (24°C) and 50% R.H. 1-3 hours tack free; recoat 3-24 hours
Clean Up	N1 Solvent or Xylol
Pot Life	1-2 hours @ 75°F (24°C) with 50% R/H. Will vary due to humidity.
V.O.C.	Less than 300 gms/liter (295 gm/liter)

PACKAGING

- 1 Quart Unit (.95 L) 12/case (#VTK5006)
- 1 Gallon Unit (3.8 L) 4/case (#VTK5004)
- 5 Gallon Unit (19 L) (#VTK5007)

POT LIFE

1-2 hours @ 75°F (24°C) with 50% R.H. Will vary due to humidity.

COVERAGE

This product should be applied at the rate of approximately 200 - 300 sq. ft. per gallon (21.3 - 31.9 m²/ 3.8L), which is approximately 2 - 5 mils. As with all coatings, coverage is dependent on the smoothness and porosity of the surface.

SURFACE PREPARATION

1. **Steel:** For best results, sand blast to a SSPC-SP6 "commercial" blast finish. Where blasting is not appropriate, remove all loose rust and mill scale by power wire brushing or hand tool cleaning. A tightly adherent rusty surface is acceptable when treated with VSC Rust Converter.
2. **Galvanized Steel:**
 - a. New - Brush blast per SSPC-SP7.
 - b. Old, Weathered, or Rusty - Remove all oil, grease, dirt, and other foreign matter. Surface should be reasonably clean, dry, and free of contaminants. Remove all loose rust, etc., as outlined above under steel. Treat with VANTEK RUST STOP prior to coating for best control of sub-surface rust.
3. **Previously Painted Surfaces:** Remove all loose, peeling, or blistered paint, and any other surface contaminants. Make sure the surface is sound and dry. Lightly abrade all smooth coatings.

Review Safety Data Sheets (SDS) for this product prior to mixing and applying. In addition, thoroughly review the Data Sheet and product labels.

APPLICATION

ALUMA KOTE may be applied by brush, roll, or spray. Roller cover should have a phenolic core and brushes should be natural bristles. For spray, flushes with a solvent (N1 Solvent or Xylol) every 1-2 hours during use to keep lines clean from material build up. Required equipment is as follows:

1. Airless Spray - Use a minimum 20:1 ratio pump with 80-100 psi inbound air. Recommend a .013" - .017" tip. Adjust pressure for proper atomization based on selected tip.
2. Convection Spray - Use a dual regulated pot with 15-25 psi fluid pressure and 40-50 psi atomization pressure. A Binks #18 with a 704E tip/air cap is recommended.

When spraying, use a 50% overlapping crosshatch pattern to minimize the occurrence of pinholes. Do not apply to surfaces below 18°F (-8°C) or above 140°F (60°C). Do not apply over dew or frost. The surface should be dry and at least 5°F (-15°C) above the dew point.

DISPOSAL

Empty containers may contain product residue, including flammable or combustible vapors. Do not cut, puncture or weld near these containers. Label warnings must be observed until containers have been commercially cleaned or reconditioned. Containers to be thrown out must be disposed in accordance with federal, state and local regulations. Use only licensed hazardous waste disposal companies.

LIMITED WARRANTY

Vantek warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed, and applied in accordance with recommendations of Vantek. If any product fails to meet this warranty, the liability of Vantek will be limited to replacement of any non-conforming material if notice of such non-conformity is given to Vantek within (1) one year of delivery of materials. Vantek may in its discretion refund the price received by Vantek in lieu of replacing the material. No customer, distributor, or representative of Vantek is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of Vantek. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. Vantek reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. VANTEK'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND VANTEK SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

MIXING

ALUMA KOTE is made ready for use by stirring so that the aluminum pigment is thoroughly dispersed in the resin and a uniform "silver" color is achieved. When used over a period of time, stir occasionally to maintain uniform mix. Thinning is not usually necessary.

Note: Always wear protective gloves and clothing while mixing and applying ALUMA KOTE. Do not get on skin. ALUMA KOTE is difficult to remove.

LIMITATIONS

1. Do not apply over frost, wet, or damp surfaces or extremely high humidity conditions.
2. Not recommended as tank lining for constant immersion.
3. Must be recoated within 24 hours.
4. Partially used containers must be reclosed tightly to prevent moisture in air from reacting with material and forming a tough skin. Skin can be removed and remaining material used. Be sure to stir.

RECOAT TIME

Based on temperature of 75°F (24°C) and 50% R.H. (relative humidity), ALUMA KOTE is tack free in 1-3 hours and may be over-coated in 1-4 hours. Always check for fingernail hardness. For maximum adhesion, recoat the same day, but no longer than 16-24 hours at 75°F (24°C) and 50% R.H. High temperatures and humidity will shorten recoat time.

CLEAN UP

Clean up immediately with N1 SOLVENT or XYLOL. Remove from skin while still wet. Scrub skin with soap and detergent.

FIRST AID

ALUMA KOTE is flammable. Keep away from all sources of ignition during mixing application and cure. Contains aromatic polyisocyanates. Proper ventilation is necessary when painting indoors or confined areas. Vapors and spray mist may cause eye/skin irritation as well as allergic reactions. Always wear protective clothing, goggles, impervious gloves and use NIOSH approved respirators. For industrial use only. Keep out of reach of children. This product is sold without warranty as to performance expressed or implied. Users are urged to make their own tests to determine the suitability for their particular conditions.

SEE SAFETY DATA SHEET FOR FULL SAFETY PRECAUTIONS.

FOR INDUSTRIAL USE ONLY

ALUMA-KOTE IS FOR PROFESSIONAL USE ONLY

KEEP AWAY FROM CHILDREN