



AZ-2402

Cote-All

Hi Heat Silicone Aluminum

Product Data Sheet

PRODUCT DESCRIPTION

Cote-All Hi Heat Silicone Aluminum is a premium quality high performance, high temperature resistant coating. This product meets Federal Specification TT-P-28E and will withstand operating surface temperatures of up to 1200° F.

TYPICAL USES

Formulated for use as a finish coat on steel structures exposed to high temperatures including incinerators, drying kilns, stacks and similar high heat equipment.

BASES & COLORS

AZ-2402 Aluminum

PHYSICAL PROPERTIES

Resin Type	Silicone Alkyd
Clean-up Solvent	Xylol
Finish	Satin
Solids by Weight	49 %
Solids by Volume	33 %
Recommended Dry Film Thickness per Coat	.75 – 1 mil
Wet Film to Achieve DFT	2 – 3 mils
Theoretical Coverage @ 1 mil	521 ft ² /gallon
Practical Coverage at Recommended DFT ¹	521 – 695 ft ² /gallon
<u>Dry Times²</u> @ 70° F (21° C) and 50% R.H.	Touch 1 hour Recoat 4 to 8 hours
Service Temperature limit	1200° F (648° C)
VOC's (unthinned)	524 grams/liter
VOC's (thinned)	538 grams/liter

Cure Procedure: AZ-2402 Hi Heat Silicone Aluminum must go through a proper cure cycle in order to withstand service temperatures above 93° C (200° F). After the final coat is applied it must be allowed to dry for 24 hours at 21° C (70° F) and 50% R.H.; lower air temperatures and higher humidity will lengthen this time requirement. After the coating has dried, the surface temperature should be elevated to between 300° F – 400° F (148° C – 204° C) for one hour. After this temperature range has been achieved, allow the surface to cool to ambient temperature and then put into full service

1 Spread rates are estimates based on products volume solids and make no allowance for material loss during application. Actual spread rates may vary dependent on applicator experience, surface porosity and texture.

2 Dry times may vary depending upon temperature, humidity and degree of air movement.

SPECIFICATIONS

Ferrous Metal

Self Priming
2 cts Cote-All Hi Heat Silicone Aluminum

This product meets or exceeds Master Painters Institute (MPI) # 2 and # 22 approval standards.

For more detailed recommendations, please contact your local Diamond Vogel Sales Representative.

SURFACE PREPARATION

All Surfaces must be clean, sound, dry and free of all dirt, dust, wax, oil, grease, and any other contamination that would interfere with new coating adhesion. **Bare surfaces must be properly prepared prior to application of this product.**

Ferrous Metal Surfaces

Surface must be free of moisture, grease, dust or other contaminants. Dry abrasive blast SSPC-10 Near White. Blast to achieve a 1-1½ mil anchor profile.

Previously Painted Surfaces

- Power or hand washing is recommended to remove contamination. If oil or grease is present, use of a cleaner/degreaser is required. All cleaning residue must be completely rinsed from the surface. Allow to dry.
- Surfaces previously painted with AZ-2402 may be recoated. Wash surfaces per SSPC-SP1 and dull previous finish by sanding or brush blasting per SSPC-SP-7.
- Remove spot rust by hand (SP-2) or power tool cleaning (SP-3 or SP-11). Spot prime bare metal with AZ-2402 Cote-All.

Mildew

Remove by using a solution of one (1) part household bleach and three (3) parts water. Apply to mildewed area and scrub. Allow solution to remain on the surface for 3 to 5 minutes then rinse completely and allow to dry before coating application. Do not add detergents or ammonia to the bleach/water solution.

APPLICATION

- Stir material prior to application. Intermix tinted containers to ensure color uniformity of all material.
- Equipment must be clean prior to start. Flush airless lines with xylene
- Apply by brush, roller or spray. A good quality synthetic brush will make application easier. Select a roller cover suited for the texture of the surface to be coated. Airless tip sizes of .011 to .013 are recommended.
- Apply the product in full even coats and maintain a wet edge. Allow the product to dry between coats.
- Thinning is not normally required. If thinning is desired for workability, add up to ½ pint of Xylol (spray application) per gallon of material.
- Apply a coat at 2.5 mils wet film thickness. **Avoid building a thick film with this product. Ending dry film thickness should not exceed 1.0 mils per coat.**

ENVIRONMENTAL VARIABLES

Minimum surface and air temperature required for application is 40° F (4° C) and at least 5° F (3° C) above the dew point. While this product is not subject to freezing, curing is affected by temperature, humidity and air movement. Cold temperatures will greatly increase the dry time. Application at elevated temperatures, wind conditions, and/or low humidity may require special application procedures to achieve proper film formation.

CLEAN-UP

Clean up spills and equipment immediately with xylol.

Alkyd coatings are not recommended for direct application to unprimed masonry surfaces or unprimed galvanized surfaces.

CAUTIONS

Not intended for use on floors

Do not apply below 40° F.

Do not take internally

Use with adequate ventilation

KEEP OUT OF REACH OF CHILDREN

*WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and wet mop. Before you start, find out how to protect yourself and your family by contacting the national Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Limited Warranty

The technical data and suggestions for use contained in this document are true and correct to the best of our knowledge at the date of issuance. The statements of this document do not constitute a warranty, expressed or implied, as to the performance of these products. Since Diamond Vogel Paints does not control the application of its products, or the condition of the surfaces to which they are applied, Diamond Vogel Paint's liability will under no circumstances exceed replacement of the product.