



ALUMIZINC 2000

TECHNICAL DATA

HIGH SOLIDS, PAINT-LIKE CORROSION COATING

THE PRODUCT AND ITS USES

AlumiZinc 2000 is a 1:4 ratio, high solids, VOC compliant, polyurethane-based primer/coating which combines the best of several corrosion protection technologies: galvanizing, aluminum and micaceous iron oxide (MIOX) barrier protection, plus corrosion inhibitors. These proven technologies work synergistically with AlumiZinc 2000 to provide the best qualities of each, making AlumiZinc 2000 a unique primer which outperforms every other high performance primer on the market. This hybrid product, when applied like paint, polymerizes to form a tough, corrosion resistant film. It can be used either as a primer or as a "one-product" coating system in any use on different substrates where maximum resistance to rust or corrosion undercutting is required. AlumiZinc 2000 will cure at ambient temperatures down to 15°F.

AlumiZinc 2000 forms a monolithic film at very low thicknesses (2-3 mils) and can be easily overcoated to higher thicknesses without mud-cracking. Excellent blistering resistance, the best possible weathering of zinc and aluminum type coatings, and an easy-to-mix format make AlumiZinc 2000 also an ideal choice for use as a stand-alone coating when both easy application and high performance are desired.

TECHNICAL INFORMATION

PROPERTY	TEST DESCRIPTION	RESULTS
Application Temperatures	N/A	-10°C(15°F) to 50°C(120°F)
Initial Setting Time	@ 70°F/20°C	2 to 3 hours
Curing Time Before Handling	@ 70°F/20°C	6 to 8 hours
Ultimate Cure	@ 70°F/20°C	5 days
Recoat Time*	@ 70°F/20°C	Up to 5 days
Solids Content	Conversion to Solids by Volume	70%
Volatile Organic Compounds (VOCs)		Less than 240 grams/litre
Theoretical Coverage		1122 ft ² /gal/mil; 28 m ² /litre/25 microns
Adhesion	ASTM D-4541 (SSPC-SP5)	Greater than 600 p.s.i.
Hardness	ASTM D-2240	50 to 60 Shore "D"
Permeability	ASTM E-96 (@ 4 mils)	.006 perm in.
Impact Resistance	ASTM D-2794 (@ 6 mils)	Greater than 100 in. lbs.
Ultraviolet Resistance	ASTM G-53	Good (slight darkening over time)
Temperature Resistance	ASTM D-870, D-2485	-40°C (-40°F) to +90°C (195°F)
Colors		Silver metallic only

*However, recoat window varies depending on the spray equipment temperature setting, the ambient conditions, product temperature/thickness, and the temperature of the substrate being coated.

NOTE: All statements, technical information and recommendations contained herein are typical of results obtained under laboratory conditions and are not intended to be used as contract specifications. For specification guidelines please contact Madison Chemical.

APPLICATION INSTRUCTIONS

CONTACT MADISON FOR DETAILED APPLICATION INSTRUCTIONS.

A. SURFACE PREPARATION

- 1) Ensure that surface is clean, dry and uncontaminated. Proceed only if the substrate temperature is more than 3°C(5°F) above the dew point temperature during surface preparation and coating application.
- 2) On RUSTY metal (e.g. railings) and old GALVANIZED metal, use scraper and wire brush to remove oxidation, loose rust and old coatings. Grease should be removed with tri-sodium phosphate (TSP), detergent and hot water, applied with high pressure power washer. Rinse and let dry completely.
On CONCRETE, use power wash as above. Do test area to determine adhesion; if not adequate, acid etch surface. Alternatively, brush blast the surface. On PREPAINTED surfaces, such as metal siding, power wash and do test area. Sand as necessary. WOOD must be completely dry before applying AlumiZinc 2000.
On SANDBLASTED STEEL, AlumiZinc 2000 provides an excellent corrosion resistant primer where topcoating will be delayed for some time. On ALUMINUM, GALVANIZED METAL and SHEET METAL, do test area. Power wash may be necessary if surface is oily or contaminated.

B. APPLICATION OF COATING

- 1) Stir 'B' side thoroughly to ensure uniform pigment dispersion. Add 'A' side to 'B' side and mix.
- 2) AlumiZinc 2000 may be applied by any conventional means - rubber gloves, roller, brush or a single component airless spray. When spraying, start with a tip in the .020" range and a medium fan. For thinning use only Madison VR-1 Viscosity Reducer. Cure-to-touch time is approximately 2 to 3 hours and cure-to-handle time is about 4 days depending on the temperature. When the product is used as a base coat primer and will be topcoated with Madison's aliphatic coating the recommended DFT is 2 - 3 dry mils. When used as a stand alone corrosion protective coating the typical application thickness is 4 - 6 dry mils. Consumption will be higher on porous surfaces. **Note: Application thickness requirement and number of coats will vary with substrate, application technique, method and environmental conditions. Contact your Madison Representative.**
- 3) Recoat within 5 days. Otherwise sand lightly to ensure optimum adhesion.

C. CLEAN-UP AND STORAGE

- 1) This material will react with humidity and moisture. Keep containers tightly sealed and store upside down. Avoid dropping or subjecting the material to strong force. For clean-up, use Madison VR-3 Viscosity Reducer, M.E.K. or a 50:50 blend of M.E.K. and Xylol. Other solvents may react with product.
- 2) Store between 10°C(50°F) and 27°C(80°F). DO NOT FREEZE. Use product within 6 months of receiving.

HEALTH AND SAFETY

Coatings that contain aluminum might build up gas over time. To avoid any sudden burst of gas, open the container carefully, thus allowing the gas to escape slowly. Avoid dropping or subjecting the material to strong force. AlumiZinc 2000 is intended for industrial use only. It contains no monomeric isocyanates but may nevertheless cause respiratory distress in some people. Provide ample ventilation. Wear a fresh air respirator when using in confined areas or when spraying. Wear rubber gloves, safety goggles and protective clothing. If swallowed, DO NOT induce vomiting as this will cause additional throat irritation; contact physician. If splashed on skin, remove immediately with rubbing alcohol and then wash with soap and water. If splashed in eyes, wash liberally with clean water and contact physician; temporary irritation of eyes may last several days. See MSDS for more information. The finished product is completely inert.

LIMITED TWO YEAR WARRANTY

Madison will replace any product which, in service for which it is suitable, fails to meet specifications within two years of sale and which is proven to be defective when applied according to instructions by a Madison Approved Applicator or Certified OEM Applicator. Madison accepts no responsibility or liability for any other loss, claim, damage, injury or expense, direct or consequential, in contract or negligence. This product replacement warranty is in lieu of any other right, warranty, guarantee or condition, statutory or otherwise, expressed or implied, whether as to fitness for a particular purpose or as to merchantable quality or otherwise.

The information contained herein is believed to be accurate as of the date of publication. Madison reserves the right to change product specifications without notice.

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