



CORROPRIME

TECHNICAL DATA

CORROSION RESISTANT PRIMER

THE PRODUCT AND ITS USES

CorroPrime® is a paint-like polyurethane resin coating heavily loaded with leafing aluminum flakes. When applied by brush, roller or spray, it automatically cures by a polymer reaction to form a tough, corrosion resistant film when applied to almost any substrate. CorroPrime® works like penetrating oil and soaks into problem surfaces such as galvanized metal, aluminum and rusty steel, forming a monolithic film at very low thicknesses. CorroPrime® can also be used for priming or coating wood, concrete and polyurethane foam. CorroPrime® offers at least twice the yield of standard primers due to its high resin and aluminum content.

CorroPrime® can be topcoated easily or used on its own (2 coats in that case). It will cure at subfreezing temperatures down to -10°C(15°F). The finished surface has a pleasing silvery look. The product is ideal for medium-duty aboveground substrates, indoors or out, where it will provide years of continuous service. Its single component, easy-to-use format makes it an ideal choice for a fabricator or hands-on maintenance professional seeking a combination of ease of use with industrial-strength performance results.

ALTERNATIVE PRODUCT CHOICE: For heavy duty and immersion service, we recommend switching to Madison's AlumiZinc® "S", which provides higher film builds and contains additional corrosion inhibitors.

TECHNICAL INFORMATION

PROPERTY	TEST DESCRIPTION	RESULTS
Application Temperatures	N/A	-10°C(15°F) to 50°C(120°F)
Initial Setting Time	@ 20°C/70°F	within 2 hours
Curing Time Before Handling	@ 20°C/70°F	within 4-6 hours
Ultimate Cure	@ 20°C/70°F	7 days
Recoat Time*	@ 20°C/70°F	Up to 48 hours
Solids Content	ASTM D-1259	55%
Volatile Organic Compounds (VOCs)	ASTM D-2369	360 grams/litre
Theoretical Coverage	N/A	23 m ² /litre/25 microns (960 ft ² /US gallon/mil)
Adhesion	ASTM D-4541 (SSPC-SP5)	Greater than 500 p.s.i.
Hardness	ASTM D-2240 (Shore D)	70-80
Flexibility	ASTM D-522	180° @ .003" over 1/4" mandrel
Impact Resistance	ASTM D-2794	Greater than 160 in. lbs.
Abrasion Resistance	ASTM D-4060 (Taber CS-17 1kg)	Good; slight darkening over time
Ultraviolet Resistance	ASTM G-154	Good; slight darkening over time
Colors		Silver metallic only

*However, recoat window varies depending on ambient and substrate temperatures and coating thickness.

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. Make sure that the substrate temperature is above the dew point (weather network and internet update dew point temperature continually).
- 2) Remove grease; use soapy water or solvent as required. Scrape, sand or wire brush to remove loose rust, old paint etc. Alternatively power wash using a mixture of Madison PreWash and warm, clean water. For optimum results, consider power tool cleaning.

B. APPLICATION OF COATING

- 1) Open container. CAUTION; aluminized products tend to build pressure in the can so remove lid carefully. Stir contents gently but thoroughly.
- 2) Unless using entire container at one time, pour off what you need into a clean, dry container. Otherwise inhibitors will evaporate and product will set in the can. Moisture (including ambient humidity) will also cause product to set, so keep partially-filled container sealed at all times.
- 3) CorroPrime® may be applied using a roller, brush or a single component airless spray equipment. Apply about 3-4 wet mils (2-3 dry mils) per coat. Consumption will vary depending on the porosity of the surface. For thinning use **only** Madison VR-1 spray-grade Reducer or VR-2 brush-grade Reducer.
- 4) If CorroPrime® is not being topcoated, simply recoat with itself. The second coat must be completed within 48 hours. Otherwise, lightly sand the initial coat to ensure good intercoat adhesion.

C. CLEAN-UP AND STORAGE

- 1) This material will react with humidity and moisture. Keep containers tightly sealed and store upside down. For clean-up, use Madison Reducers. 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. CorroPrime® is intended for industrial use only. It contains minimal monomeric isocyanates but may nevertheless cause respiratory distress in some people. Provide ample ventilation. Wear a fresh air respirator rated for organic vapours when using in confined areas or when spraying. Wear rubber gloves, eye glasses (or 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. CorroPrime® contains no known or suspected carcinogens or mutagens. 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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