

Industrial Steel



U.S. SPECIALTY COATINGS

INDUSTRIAL STEEL is a direct-to-metal coating developed for the shipping and storage container industry.

INDUSTRIAL STEEL displays resistance to corrosion and harsh environmental conditions, impact, abrasions, humidity and UV exposure. It dries hard and very fast for a quick return to service. It can be applied in one coat over properly prepared or primed substrates; some darker colors may require a second coat.

COMMON USES:

Structural Steel **Piping** Intermodel Containers Tank Cars Freight Cars Bridges Storage Tanks Machinery/Equipment

FEATURES:

Fast Drying Interior/Exterior Apply in low temperatures Low Cost **Easy Application** Superior Adhesion and Film Hardness **Excellent Scrub Resistance** Resistant to Household Chemicals **Contains Flash Rust Inhibitive**

Packaging: Available in One-gallon Cans & Five-Gallon Pails Gloss: #2200 Low-Gloss: #2100

Sheen Levels: Gloss:60°-70°; Low-Gloss: 25°-35°;

Matte: 5°-15°

Bases: White, Neutral

White Base: 4 Oz/Gal Short-Fill

Gloss: #2200-50 Low-Gloss: #2100-50 Matte: #2300-50

Neutral Base: 12 Oz/Gal Short-Fill

Gloss #2200-20 Low-Gloss #2100-20 Matte: #2300-20

APPLICATION:

Mix well before using. Apply with a quality brush, roller or airless sprayer. Apply two coats to ensure a sealed and uniform finish. Ambient and surface temperature must be above 55°F and relative humidity below 80%.

Do not apply in windy conditions or if rain is imminent within 48 hours.

Apply a small pre application test patch.

Brush: Use a good quality synthetic bristle brush. Roller: Short nap 1/4-3/8" synthetic cover for smooth surfaces. Long nap synthetic cover for rough surfaces. Air-Atomized Spray:

Pressure: Tip 0.055-0.070, Atom Pressure: 40-60 psi Siphon: Tip 0.055-0.070, Atom Pressure: 40-60 psi HVLP: Tip 0.043-0.070, Atom Pressure: 10 psi at tip Airless Spray: Fluid Pressure: 2000-3000 psi. Tip Size: . 013"-.17". Filter: 100 Mesh.

VOC: < 200 q/L

PHYSICAL PROPERTIES

White Base Weight Solids: 45% ±2

Composition: Water Base Acrylic Polymer

White Base Volume Solids: 32%

Neutral Base Weight Solids: 34% ±2

Neutral Base Volume Solids: 30%

Weight per Gallon: Neutral: 9 Lbs; White Base: 10.5 Lbs

Finish: Matte, Low-Gloss and Gloss

Viscosity: 90-100 Kus

Coverage: 250-500 Sq. Ft per Gallon

Recommended Dry Mils: 1 - 3 Recommended Wet Mils: 2.5 - 7.5

Always apply a test patch to check for adhesion.

compatibility and proper results.

Drying Time @77° and 50% Relative Humidity:

Surface Dry: 15-20 Minutes Recoat Time: 1-2 Hours

Cooler Temperature, higher humidity and film thickness will

require longer drying time.

Shelf Life: 2 Years

SURFACE PREPARATION:

Surface preparation is critical to product performance.

Surfaces must be clean, dry and free of rust/corrosion, dirt, chalk, grease, oils, salts and contaminants that inhibit proper adhesion. Clean surfaces thoroughly by scrub washing with soap or a detergent. Pay special attention to areas where build-ups of dirt, grease and oil exist. These areas should be scrubbed clean.

Existing peeled or poorly bonded paint should be scraped and sanded to a sound surface. Dull glossy surfaces by sanding or by using a chemical de-glosser. All repairs necessary should be completed prior to the application. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer/sealer.

Previously Painted Surfaces: Remove all loose, peeling or poorly bonded paint. Check adhesion of old paint before repainting. Mechanically clean and abrade using 60-80 grit sandpaper.

METAL SURFACES:

Non Ferrous (galvanized, aluminum, stainless steel): Remove all oils or films with a neutral detergent or emulsion cleaner. Blast lightly with fine abrasives or conduct a light etching. Then rinse using a Zinc treatment and apply INDUSTRIAL STEEL within 3-6 hours to avoid oxidation.

<u>Corrosive Metals</u>: Remove all the adhesion affecting rust, dirt, grease and other contaminants by one of the following depending on the degree of cleanliness required: Blast SSPC-SP3; SSPC-SP2; SSPC-SP6; SSPC-SP7. Blasting lightly with fine abrasives or conducting a light etching are also options. Then prime with a rust inhibitive primer within 3-6 hours.

CAUTIONS: Protect from freezing. Before using, carefully read CAUTIONS on label. Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, respiratory protection (NIOSH approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

FIRST AID: In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately.

CLEANUP INFORMATION Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

WARRANTY INFORMATION: MONOPOLE believes that the information in this publication is an accurate description of the typical characteristics and/or uses of the product or products. It is the applicator's responsibility to thoroughly test the product in the specific application to determine its safety and performance capabilities. Since use of this product is beyond our control, MONOPOLE, INC. cannot assume any risk or liability for results obtained when not used according to our specifications and directions. Unless MONOPOLE provides a specifically written statement of fitness for a particular use, MONOPOLE'S sole warranty is that the product will meet its current sales specifications. MONOPOLE disclaims any other expressed or implied warranties, including the warranty of merchantability and fitness for use. Your exclusive remedy and MONOPOLE'S sole liability for breach of warranty is limited to a refund of the purchase price or replacement of any product proven to be defective. In no event shall the seller be liable for any loss of profits or other consequential damages, including labor charges.

PERFORMANCE CHARACTERISTICS:

Crosshatch Adhesion:

Method: ASTM D3359

Result: 5B

Pencil Hardness:

Method: ASTM D3363

Result: F/3H

Impact Resistance:

Method: ASTM D2794, 250 Lbs

Result: Pass

Flexibility:

Method: ASTM D522, 180° bend, ½ Mandrel

Result: Pass

Gloss At 60°

Method: ASTM D523 Result: 80-90%

Fade Resistance:

Method: ASTM D151, QUV Type A Bulb, 1,000 Hours

Result: AE=0.89

Dry Heat Resistance:

Method: ASTM D2485

Result: 325°F

Cyclic Prohesion:

Rating 1-10 10=best

Method: ASTM D5894, 2 cycles, 800 hours

Result: 10 per ASTM D610 for rusting Result: 10 per ASTM D714 for blistering Result: 10 per ASTM D1654 for corrosion

Salt Fog Resistance:

Method: ASTM B117, CRS, 30 Day Cure

Result: 800 hours @4 DFT