MODERN MASTERS® METAL EFFECTS® OXIDIZING IRON PAINT

DESCRIPTION AND USES

Modern Masters® Metal Effects® Oxidizing Iron Paint is a water-based, modified acrylic paint with a high concentration of iron particles. It will rust naturally over time if exposed to the proper elements, but Metal Effects Rust Activator will speed up the oxidation process and create a beautiful, authentic rust finish in less than one hour. The entire system can be applied to any properly prepared surface, including metal, wood, drywall, plaster, paintable wall coverings, canvas or muslin, and plastic surfaces.

Popular applications range from full interior and exterior walls, moldings, trim, columns, doors, railings, to lamps, vases, and planters.

PRODUCTS

6 Oz.	16 Oz.	GALLON	DESCRIPTION
ME20806	ME20816	ME208GAL	Oxidizing Iron Paint

4 Oz.	16 Oz.	GALLON	DESCRIPTION
PA90404	PA90416	PA904GAL	Rust Activator

2 Oz. Kit	DESCRIPTION
306293	Oxidizing Iron Paint Kit

RECOMMENDED TOP COAT

4 Oz.	16 Oz.	GALLON	DESCRIPTION
AM20404	AM20416	AM204GAL	Permacoat Xtreme

RECOMMENDED PRIMER

4 Oz.	16 Oz.	GALLON	DESCRIPTION
AM20304	AM20316	AM203GAL	Metal Effects Primer

COMPATIBLE PRIMERS FOR METAL SURFACES

Rust-Oleum® Universal Acrylic Primer
Substrates: galvanized metal

Rust-Oleum® ROCPrime® Water Based Hybrid 1K Epoxy Primer
Substrates: rusting metal, slag steel

X-I-M® UMA®
Substrates: aluminum metals, copper piping, window, and door mullions

PRODUCT APPLICATION

SURFACE PREPARATION

ALL SURFACES: Remove all dirt, grease, oil, salt, and chemical contaminants by washing the surface with a commercial detergent or other suitable cleaner. Rinse thoroughly with fresh water and allow to fully dry. If any mold or mildew is present on the surface clean further with one quart of household bleach added to a gallon of water. Rinse with clean water. Severely mildewed areas should be cleaned with a chlorinated cleansing powder and thoroughly rinsed with water. All surfaces must be dry at time of application.

PREVIOUSLY COATED: Previously coated surfaces must be sound and in good condition. Smooth, hard, or glossy finishes should be scarified by sanding to create a surface profile.

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 a 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.

APPLICATION

Modern Masters Metal Effects Oxidizing Iron Paint can be brushed, rolled, or spray applied onto any paintable, properly primed, interior or exterior surface, such as walls, ceilings, columns, trim, doors, furniture, and paintable wallcoverings. Always test the product in a small, inconspicuous area before beginning a project to see if the desired results are attained. We recommend preparing a sample board prior to beginning a project to check color and technique. The paint should be mixed thoroughly before using.

Do not apply in temperatures below 55°F/13°C or above 85°F/29°C.

BRUSHING: Use a high-quality brush suitable for use with water base paints.

ROLLING: To roll Metal Effects Oxidizing Iron Paint, use a high-quality, lint free roller and/or a natural sea sponge roller for added effect.

Form: ARJ-1657
Rev.: 051325

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PRODUCT APPLICATION (cont.)

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SPRAY: The Metal Effects Oxidizing Iron Paint can be spray applied using conventional air atomized spray or HVLP. Thin only as needed with clean, fresh water up to 12.5% by volume, one pint (16 fl. oz.) per gallon. Do not over thin as this can affect the hide and final appearance. The actual amount of thinning will depend on the type of spray equipment being used. Be sure the air supply is clean and oil free.

Examples: Binks-Mach 1 HVLP, with a 94-nozzle set up (0.55 or 1.4mm diameter fluid tip and a 90P air nozzle). The settings for this equipment were: Fluid Pressure-25psi and Air Pressure-45psi.

Binks-2001 Conventional, with a 66SS air nozzle set up (0.70 or 1.8 fluid tips and a 66SD air nozzle). The settings for this equipment were: Fluid Pressure-30psi and Air Pressure-60psi. Use a NIOSH approved respirator when spraying. Provide adequate ventilation. Note: Do not use turbine-type "air compressors" to power the HVLP spray gun and do not use airless spray systems.

Caution: Protect surrounding surfaces from over spray. Over spray can be wet or dry depending on height of work, weather, environmental conditions, and application equipment. Wet over spray can adhere to unwanted surfaces. Dry over spray may be removed by wiping or washing. Always clean dry over spray from hot surfaces before fusing occurs as surface temperatures can be higher than the air temperature.

Taping: Use high quality, low-tack tape when taping over surfaces that have been previously painted with Metallic Paint. When painting over taped-off areas be aware that Metallic Paints exhibit poor early adhesion properties and are elastomeric (they stretch) before curing. Consider cutting along the tape edge with a razor blade to avoid delaminating the fresh paint from the substrate.

APPLICATION INSTRUCTIONS

STEP 1: Apply at least two coats of Metal Effects Primer to completely seal and block the surface. Some metal surfaces, such as bare aluminum, galvanized metal, or rusted or slag metals, will need a specialty primer from our recommended primer list, applied prior to the application of Metal Effects Primer. If this is the case, read the specific information for the recommended primer prior to beginning your project. Allow Metal Effects Primer to dry for 12 hours before applying the Oxidizing Iron Paint.

STEP 2: Mix Metal Effects Oxidizing Iron Paint thoroughly before each application. Power or machine mixing is preferred when first mixing the product. Apply first coat of Metal Effects Oxidizing Iron Paint and allow to dry. Apply a second coat of Metal Effects Oxidizing Iron Paint in the same manner. Second coat must be completely dried before applying the Rust Activator, approximately 60-90 minutes.

PRODUCT APPLICATION (cont.)

APPLICATION INSTRUCTIONS (cont.)

STEP 3: Apply the Rust Activator with a brush, sea sponge or spray apply with a plastic pump sprayer. After 5 minutes, reapply the Rust Activator. If a deeper red rust effect is desired, apply a third application of Rust Activator in the same manner. As the activated surface dries (approx. 30-60 mins) a real rust finish will appear. Rust Activator should be applied within 24 hours of the Oxidizing Iron Paint to achieve full rust development. Temperature and humidity conditions and activation technique can affect the oxidation process and dry time.

Note: Due to varying application techniques, temperature and humidity, each project will have unique variations in the final finish.

STEP 4: Protective Clear Coating – The rusted surface should be protected with Metal Effects Permacoat Xtreme. **DO NOT USE OTHER SEALERS OR VARNISHES.** Permacoat Xtreme can be applied by brush, roller, or spray. Surface must be completely dry prior to top coating (minimum of 24 hours). First coat: Add equal parts of Permacoat Xtreme with water and stir well before applying. Second coat: Apply Permacoat Xtreme at full strength. Let surface dry for 1 hour before handling. Full cure time is 7 to 10 days.

DRY TIMES

Recoat time is approximately 30 minutes. Dry-to-touch time is approximately 1 hour. (Drying times were recorded at 70°F and 50%RH.)

Note: Lower temperature and/or higher humidity will lengthen the dry and cure times.

CLEAN UP

Clean brushes, rollers, tool, and equipment with soap and warm water immediately after use. Promptly wipe up spills and splatters with a damp cloth.

HANDLING & STORAGE

Close all containers tightly when not in use. Store in a cool dry place away from direct sunlight. Do not freeze. If Metal Effects Oxidizing Iron Paint becomes frozen, allow the paint to completely thaw and come to room temperature before use. Stir thoroughly before use.

DISPOSAL

Dispose of unused or unwanted product in accordance with local laws regulating water-based coatings.

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PHYSICAL PROPERTIES

		OXIDIZING IRON PAINT	RUST ACTIVATOR
Resin Type		Water-Based Acrylic	Water, hydrochloric acid
Pigment Type		Iron oxide	NA
Solvents		Water, Glycol Ethers	Water
Weight	**Per Gallon**	14.76 lbs.	8.61 lbs.
	Per Liter	1.77 kg	1.03 kg
Solids	**By Weight**	54.09%	7.11%
	By Volume	17.84%	3.96%
Volatile Organic Compounds		179 g/l	0 g/l
Recommended Dry Film Thickness (DFT) per Coat		1 mil	NA
Wet Film to Achieve DFT (Unthinned material)		5.6 mils	NA
Practical Coverage at Recommended DFT (assume 15% material loss)		240 sq. ft./gal.	250 sq. ft./gal.
Dry Times at 77°F (25ºC) and 50% Relative Humidity	**Touch**	1 hour	NA
	Handle	2 hours	NA
	Recoat	60-90 minutes	NA
	Full Cure	3-4 hours	NA
Shelf Life		4 years	4 years
Flash Point		200°F	
Safety Information		For additional information, see SDS	

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