

MASTERCOAT®

THE MASTERSERIES COATING LINE

Mastercoat™ Permanent Rust Sealer Silver...The Ultimate In Rust Prevention!

Description:

One package aromatic urethane, moisture-curing, primer/finish/surfacer/sealer.

Color:

SILVER (Non-leafing flat aluminum)

Packaging

Quarts, One, & Five gallon containers

Uses:

Mastercoat™ MCU is a maintenance primer and finish coating for interior and exterior use over steel and masonry surfaces where a high degree of chemical, abrasion and corrosion resistance is required. This coating is generally used as a primer on steel and galvanized surfaces where only marginal surface preparation can be achieved. It can be used as a primer for enamel, lacquer, and two part epoxys. Mastercoat™ can be used as a topcoat where gloss retention is not a critical factor, i.e., as an aluminum roof paint. Because it has excellent salt corrosion resistance properties, Mastercoat™ has been widely used in marine atmospheres. It has found use on steel tanks, stacks, piping, metal building paneling, trucks, railcars, bridges, etc.

Mastercoat™ is supplied as a one package product to be applied as supplied. **THINNING IS NOT RECOMMENDED. IF THINNING IS REQUIRED NOT MORE THAN 10%, THINNING CAN ADVERSELY EFFECT THE CORROSION FIGHTING PROPERTIES OF THIS COATING. USE MCT 101 THINNER OR URETHANE REDUCER.**

TEST DATA

Salt spray, 5% (ASTM B117)

3 coats of Mastercoat™ applied rusty steel with an "x" scribed through the center of plate. After 14,000 hours exposure only slight undercutting at spots along a scribed "x" was noted and this was less than 1/32" undercut. Total film thickness 8.0 mils approximate.

Weatherometer:

Cycle consisted of 30 minutes light, 125°F, 30 minutes dark, 80 F, 100% R.H. Panels were prepared as for above salt spray using rusty substrate, after 2000 hours the coating appeared in very good condition with no apparent undercutting along scribed "x".

Outdoor Exposure:

Two coats Mastercoat™ approximately 6.0 mils DFT applied to rusty panel and exposed for 5 years showed now signs of lifting of paint film or blistering and no apparent rusting.

Heat Test:

2 coats of Mastercoat™ were applied to sand blasted panels and subjected to 350°F for 15 days. Although slight yellowing occurred, there appeared to be no loss of adhesion or blistering of film.

Solvent Resistance:

After curing for 7 days at room temperature, Mastercoat™ coated panels were subjected to various solvents and found to be extremely resistant. After 30 days exposure there was no failure or noticeable attack by solvents such as xylol, toluol, or other aromatics. Alcohols and glycols showed no attack. Also, ester solvents such as ethyl glycol acetate had no affect. Acetone softened the film after 10 days, although it hardened upon removal. Methylene chloride destroyed the film in two days. Gasoline diesel fuel and JP.4 jet fuel had no affect on the coatings.

Surface Preparation:

Previously painted and rusted surfaces, for optimum surface preparation, sandblasting is recommended. However, in situations where sandblasting is not permitted or restricted. Mastercoat™ can be applied over tightly rusted surfaces, so long as the rust profile is covered by at least 1 mil. It is necessary to remove all oil, grease, loose scale or rust and loose paint using a stiff wire brush, by hand tool cleaning or by other suitable means. This coating will adhere well to light and tightly rusted surfaces and will arrest further rusting.

APPLICATION:

Mastercoat™ may be applied by brush, roller (short nap or foam), or spray (atomizing or airless). These coatings are moisture curing and it is extremely important that the surface be free of all moisture prior to coating application. Also, the coating should dry for a minimum of one hour at 75°F and 50% R.H. prior to being subjected to moisture (rain); longer at lower temperatures and relative humidity. Caution: for spray application, a fresh air supplied mask should be worn such as #W-292 mfg. by 3M Co. It is important the spray droplets of paint not be inhaled.

IMPORTANT: clean equipment immediately after use. If coating is allowed to harden on equipment, industrial paint stripper is required to remove it. Do not thin for application.

Stir prior to use to assure that no settled pigment remains at bottom of container. Use only low speed mixing and avoid developing a vortex as this will introduce moisture into the system which can cause gelling. Keep lid on container when not in use and store only in dry areas.

All other coatings or alcohol-content solvents must be thoroughly flushed from application equipment prior to application of Mastercoat™. Refer to material safety data

sheet and package label.

New Metal Surfaces/Clean Steel:

Scuff with 220 grit and use Mastercoat™ Metal Prep to ensure maximum adhesion where sandblasting has not been done.

PRECAUTIONS:

Contains aromatic polyisocyanate prepolymer. Use adequate ventilation. In confined areas, use adequate forced ventilation during application and drying. When spraying, a fresh air mask such as W-292 manufactured by 3M Co. should be used.

Harmful or fatal if swallowed. If swallowed, do not induce vomiting. Call physician immediately. Eye irritant. Wear eye protection. In case of contact with eyes, flush repeatedly with water and contact a physician. Difficult to remove from skin. Wear protective clothing. Moisture in skin will cause rapid curing. Do not attempt to remove cured coating on skin with solvent; soak in warm, soapy water. Barrier creams are not recommended where possible to cover with protective clothing. Combustible. Keep away from heat, sparks, and open flame. Refer also to safety data sheet. **Note: Although this coating composition is not a fire retardant product, it will not support combustion and will self-extinguish when the source of fire is removed.**

VOLUME SOLIDS:	60%
NUMBER OF COATS:	Two minimum
FILM THICKNESS:	Minimum: 2 mils (wet 4) Maximum: 3.5 mils, (wet 7)
THEORETICAL COVERAGE @ 2 mils DFT:	400 sq. ft./gallon
DRYING TIME: @ 75°F, 50% RH:	Touch 0.7 hours Tack free 1.25 hours Hard dry 3.00 hr Mar free 4.5 hr 3 HOURS min. 48 HOURS max. Beyond 48 hours; scuff with 220 grit paper
RECOAT TIME:	
MAX HARDNESS:	7 days
THINNER:	MCT 101 or urethane
REDUCER:	reducer
MIN. APP. TEMP.:	10% maximum
FIRE RESISTANCE:	25°F

RECOMMENDED USES:

MARINE

-gas tanks inside and out.

OILPANS, SUPERSTRUCTURE, BOAT TRAILERS, MOTOR MOUNTS, OUTDRIVES, ALL AREAS EXPOSED TO SALT SPRAY, AND AUTOMOTIVE RESTORATION

Mastercoat™ Permanent Rust Sealer/Surfacer is recommended as a base primer for any other paint system. It is also used to seal rust and old paints and to level heavy pitting. This base primer is air tight and compatible with any other paint. It will extend the service life of ordinary paints dramatically. Mastercoat™ Permanent Rust Sealer/Surfacer should be used in any part of the car where recurring rust is a problem. Mastercoat™ Silver is not generally used on exhaust systems.

Mastercoat™ Silver will add structural strength to sheet metal that is severely rusted and will fill in pinholes. Multiples coats are usually recommended. For sanding purposes, we recommend 220 grit dry. The use of gloves and protective clothing cannot be overemphasized. This coating once dried is immune from solvent. Wear rubber gloves!

Mastercoat™ Silver will not rust beyond a scratch or chip. Highly recommended under stainless steel trim clips, backs of bumpers, and anywhere the surface will be scratched during assembly.

FOAM ROLLERS WORK ESPECIALLY WELL FOR FLOOR PANS, FRAMES, AND INNER PANELS.

GAS TANKS INSIDE AND OUT:

ACID ETCH THOROUGHLY WITH CAPTAIN LEE'S METAL PREP AND CONDITIONER. THIS WILL DISSOLVE THE RUST AND ETCH THE GALVANIZED SURFACE. DUMP ENTIRE CONTENTS OF CAN INTO THE TANK SENDING UNIT. SLOSH THOROUGHLY. DUMP ENTIRE CONTENTS OUT. STAND TANK UP ON END AND LET DRY FOR 48 HOURS. THIN COAT IS RECOMMENDED. DO NOT ALLOW IT TO PUDDLE UP IN THE TANK. IF TANKS ARE PINHOLED OUT, PAINT THE OUTSIDE OF THE TANK FIRST.

**P
M Industries**

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To order or for more information, call us at

1-800-833-8933

Monday through Friday 9am – 9pm EST

Visit us on the web at

www.mastercoatusa.com