

MT-1

RUST PROTECTION

**COMPOUND
EXTERIOR**

■ DESCRIPTION

MT-1 is a highly protected coating formulated for corrosive and abrasive applications. Its unique polymer makes it impervious to moisture, weathering and UV degradation.

It is highly resistive to hydrocarbons, corrosion and a wide variety of harsh chemicals. MT-1 is ideal for use on ferrous & non-ferrous metals, masonry, timber, fiberglass, glass and carbon fiber.

■ RECOMMENDED USES

Ship Hulls	Water & Waste-water Plants
Docks & Piers	Desalination Systems
Water & Oil tanks	Pulp & Paper Mills
Electrical Wiring Coating	Off & On-Shore Oil Industry Infrastructure
Automobile Underbody	Aquaculture Industry

■ LIMITATIONS

Apply at temperatures between 100 C – 210 C (500 F to 700 F)
Do not apply if within 5 C of Dew Point or if rain is expected within 12 hours
Do not apply on wet surface

■ TECHNICAL DATA

Vehicle Type	Solvent Based	
Pigment Type	Solvent Pigment – 120 ml's/L (16 oz/gallon)	
Volume Solids	20%	
Recommended film thickness/coat	Wet	See application procedures below
	Dry	10 mils
Coverage per gallon (3.78 L) at recommended film thickness	(130 – 150 Ft ² . /gallon)	
Porosity and surface texture will determine volume requirements. Ensure accurate color uniformity and minimize excess paint disposal with accurate volume estimates.		
Dry Time @ 25° C (77° F) @ 50% RH	Tack Free	25 Minutes
	Full Cure	12 Hours
High humidity and cool temperatures will result in longer dry, recoat and service times.		
Dries by	Evaporation	
Viscosity	700 – 3,000 cps (6 rpm/#2)	
Flash Point	17<	
Gloss/Sheen	semi gloss (4 – 10 @ 99° C (60° F))	
Surface Temperature at Application	Minimum	(30° F)
	Maximum	(90° F)
Operating Temperature	Minimum	(28° F)
	Maximum	(90° F)
Thin with	Do not thin	
Clean up with	Solvent based liquid (E.g., Tert-Butyl acetate or acetone)	
Weight per gallon (3.78 L)	4.9 kg (10.8 lbs.)	
Storage Temperature	Minimum	7.2° C (45° F)
	Maximum	35° C (95° F)
Volatile Organic Chemicals (VOC)	350 grams/liter	

■ APPLICATION REQUIREMENTS FOR BARE METAL

The application and adherence of M1 Primer coating system is dependent on a clean substrate. The following are requirements for successful application over bare metal.

Conduct a SSPC-1 cleaning on areas to be covered with MT-1

SSPC-1: This specification covers requirements for solvent cleaning of steel surfaces. Solvent cleaning is a method for removing all visible oil, grease, soil, drawing and cutting compounds or other soluble contaminants from steel surfaces. It is intended that solvent cleaning be used prior to the application of paint and in conjunction with surface preparation methods specified for the removal of rust, mill scale, or paint.

After a SSPC-1 is completed blast area to be coated to a SSPC-10 Near White Metal with 1-2 mill profile.

Brush all grit off the substrate and using a clean white lint free rag wipe blasted area with Isopropyl Alcohol to remove all dust. Continue to wipe surface until no residue is present.

Spray first coat of MT-1 Primer on substrate at 4-6 mils Wet Film Thickness and allow to cure for 20 minutes.

Apply a Stripe coat with a paint brush on all edges and welds and allow to dry for 20 minutes

Spray a second coat of M1 Primer at a rate of 8-10 mils Wet Film Thickness and allow to dry for 20 minutes.

Spray the final coat at a rate of 10 mils Wet Film Thickness and allow to cure a full 12 hours before being exposed to water

■ APPLICATION

Conventional Spray: Coating is ready to use and should not be thinned. Gently shake container and pour through a 145-mesh filter into a high quality HVLP detail spray gun with a .6mm tip, such as an IWATA LPH -80 or a siphon-fed detail spray gun with a fine to medium tip. The use of a small spray tip pattern will aid in coating hard to reach areas without excessive build up in surrounding areas. Electrostatic application may also be an option. Air pressure should be 25-35 Psi. Allow to air-dry. Parts will be tack free after approximately 35 to 45 minutes. Until this point the coating is still wet and should not be touched. Parts will be partially cured after 12 hours and fully cured 3 days after application. Clean tools and equipment with tert-Butyl acetate or acetone.

Blow off substrate with a high-pressure air nozzle to remove any dust left on the surface. Work in a well-ventilated area and wear a respirator - see MSDS for safety and handling information.

Clean Up:

Clean up using solvent-based liquid

■ ENVIRONMENTAL HEALTH & SAFETY INFORMATION

Caution

READ INSTRUCTIONS BEFORE USE

May cause allergic eye and skin reaction.

Do not get on skin or in eyes.

May cause respiratory irritation.

Wear protective gloves while handling.

May be harmful if swallowed.

Use only in a well-ventilated area. Keep container closed when not in use,

In case of spillage, absorb with inert material and dispose of in accordance with local regulations. Wash thoroughly after handling, protect from freezing.

Refer to Safety Data Sheet for additional health and safety information.

Stir thoroughly.

Behind Masters Touch is an experienced team of chemical engineers and research scientists devoted to making the impossible; POSSIBLE.

Our advanced coatings meet the demanding needs of military contractors, heavy industry and homeowners alike with formulations that push the envelope in creating sustainable, affordable and easy to use products.

WARNING

Although the technical details and recommendations contained in this product data sheet are based on the best of our knowledge and experience, all the above information must be considered as indicative only.

Users must ensure, through prior testing, that MT-10 is suitable for the intended application and site conditions.

In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

■ LEGAL NOTICE

- The contents of this Technical Data Sheet (TDS) may be copied into another project-related document; however, the resulting document shall not supplement or replace the requirements of the TDS in force at the time of application.
 - The most up-to-date TDS can be requested from Masters Touch Global Inc. or downloaded from the official website.
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