



MT-321

HIGH HEAT COATING

■ DESCRIPTION

MT-321 is a state of the art, nano-technological, single component, corrosion preventative and extreme heat resistant coating.

MT-321 can resist temperatures of 8000 C (15000 F). This leading-edge coating is impervious to UV degradation, chemical attack, freeze thaw cycles and has a performance life of over three years. MT-321 is VOC and AQMD compliant. and is ideal for immersion service on marine, aerospace, architectural, construction, industrial and automotive equipment.

■ RECOMMENDED USES INCLUDE:

Drilling casing	Aviation fuel lines
Fireplaces	Engine components
Barbecues, Ovens & Stoves	Latex molding equipment
Heat Exchangers	Autoclave
Brake Calipers	Exhaust Stacks

TECHNICAL DATA

Vehicle Type		Solvent Based
Pigment Type		Solvent Type
Volume Solids		41% ± 2%
Recommended film thickness/layer.	Wet	First Coat 1.0 mil followed by 1.0 mil on 2nd coat <i>Important: Apply 2nd coat while 1st coat is still wet</i>
	Dry	0.50 to 0.75mils
Coverage per gallon (3.78 L) at recommended film thickness		14.75 – 19.6 sq. m. (600 – 800 sq. ft./gallon)
Porosity and surface texture will determine volume requirements. Ensure accurate color uniformity and minimize excess paint disposal with accurate volume estimates.		
Dry Time @ 250 C (770 F) @ 50% RH	Tack Free	2 Hour
	To Recoat	5-10 mints
High humidity and cool temperatures will result in longer dry, recoat and service times.		
Dries by		Evaporation
Viscosity (Brookfield Viscometer)		5.2 CP
Flash Point		>170 C (620 F)
Gloss/Sheen	Painted Aluminum	488 Gloss Units @600
	Steel	28 Gloss Units at 600
Surface Temperature at Application	Minimum	40 C (400 F)
	Maximum	270 C (800 F)
Thin with		Do not thin
Clean up with		Solvent Cleaning
Weight per gallon (3.78 L)		3.6 kg (8 lbs.)
Storage Temperature	Minimum	50 C (400 F)
	Maximum	250 C (780 F)
Volatile Organic Chemicals (VOC)		0. grams/liter

■ SURFACE PREPARATION

Surfaces must be clean and free of rust, dirt, oil, grease, wax, mildew, or any other surface contaminants.

Remove any chalk and loose or scaling paint. Recommend Oxsol 100 or Parachlorobenzotrifluoride as surface cleaning degreaser.

Scrub with an Oil & Grease Emulsifier removing rust and mill scale by hand or power tool cleaning or sand blasting.

Glossy surfaces must be dulled. Apply the coating only when the surface temperature is more than 5F or 3C above the dew point temperature of the surrounding air and relative humidity is below 85%, in order to prevent moisture condensation on the surface. Always apply test area before proceeding with entire application. The surface is to be clean and free of any foreign matter

■ APPLICATION

Apply the MT321 to any surface or substrate. The MT-321 is applied in 2 coats - recommended thickness is 0.75 Mills dry depending on application and substrate. Product must be applied to a dry surface. Always apply to a test area before proceeding with entire application. Use air pressure spray gun with tip of .4mm with air pressure 10-15 psi Mix or shake the product well before application.

- Product can be applied by spraying, dipping, brush, or by roller.
- Apply uniformly.
- Avoid pooling or excessive product application. MT-321 is considered a 'thin film' performer.

■ CLEAN UP

Clean tools immediately after use with Axsol 100 or mineral spirits. Solvent cleaning can be followed by a wash with soapy water. Cured material cannot be removed with solvent. Proper clean-up of equipment is essential.

■ STORAGE LIFE

Maximum of 1 year for unopened containers. Product must be used 1 months after the container is opened.

Pot Life: Usable life will be determined by the precautions taken to keep containers tightly sealed and protected from moisture.

Disposal: Incinerate at a facility that is permitted for waste disposal. Must be stored and handled in compliance with all current local regulations for flammable liquids. Store in cool, dry, well ventilated (5C-35C / 40F-95F) areas, out of direct sunlight and moisture.

■ 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-321 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.
- Any alteration to the wording, specifications, or requirements contained or derived from this TDS releases the manufacturer from any responsibility.



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