

MP-1000

DTM PRIMER/SURFACER/SEALER

Technical Data Sheet

Technical Hotline 800.735.0303

PRODUCT NUMBER

MP-1000

DESCRIPTION

DTM PRIMER/SURFACER/SEALER

ACTIVATOR

MA-1000

DESCRIPTION

DTM PRIMER ACTIVATOR

CONVERTER

MC-1000

DESCRIPTION

DTM PRIMER SEALER CONVERTER

DESCRIPTION

MP-1000 is a premium direct to metal (DTM) primer/surfacer/sealer. As a surfacer, it is high build, fast dry, and easy to sand. As a sealer, it is easily applied and provides a smooth topcoat appearance. MP-1000 DTM Primer/Surfacer/Sealer is formulated to provide excellent adhesion and corrosion resistance.

COMPATIBLE SUBSTRATES

Steel, Aluminum, Fiberglass, Body Filler, Existing OEM finishes, OEM E-coat, and plastics commonly found in transportation repair and refinish.

MP-1000 can be used over some plastics, anodized, or composite materials used in fabrication and manufacturing, although individual testing is recommended.

SURFACE PREPARATION



STEEL

1. Clean repair area with Matrix MX-9000 Pre-Prep Wax & Grease Remover or MXW-9001 where VOC regulations require use.
2. Sand with P80 grit dry.
3. Clean repair area with Matrix MX-9000 Pre-Prep Wax & Grease Remover or MXW-9001 where VOC regulations require use.

ALUMINUM

1. Clean repair area with MXW-9001.
2. Thoroughly sand surface with "red" scuff pad (3M 7447 or equal).
3. Clean repair area with MXW-9001.

FIBERGLASS (GEL COATED OR SMC SURFACE)

1. Clean repair area with MXW-9001.
2. Sand surface with P220-P320 grit dry.
3. Clean repair area with MXW-9001.

BODY FILLER

1. Body filler should be final sanded with P150-P220 grit dry prior to applying MP-1000.
2. Body filler should be kept within the repair area. Do not feather body filler directly into the surrounding paint.

SURFACE PREPARATION CONT'D



- The surrounding finish should be feathered in with P220-P320 grit dry.

Note: If cleaning of the body filler is needed after sanding, use only MXW-9001. Do not saturate the body filler. Allow extra dry time to assure polyester filler is completely dry.

EXISTING OEM FINISHES

- Clean repair area with Matrix MX-9000 Pre-Prep Wax & Grease Remover or MXW-9001 where VOC regulations require use.
- Sand the existing OEM finish with P220-P320 grit dry.
- The MP-1000 application should be kept within the sanded area of the existing finish.

OEM E-COAT

- MP-1000 can be applied directly to properly cleaned unsanded OEM E-Coat.
- Clean panel with Matrix MX-9000 Pre-Prep Wax & Grease Remover or MXW-9001 where VOC regulations require use.
- To correct surface imperfections feather edge any damaged E-Coat areas with P320-P400 grit dry.
- Clean panel with Matrix MX-9000 Pre-Prep Wax & Grease Remover or MXW-9001 where VOC regulations require use.
- Apply MP-1000 following instructions as "sealer".

PLASTIC

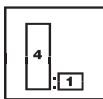
- Wash item with warm soap and water.
- Clean repair area with Matrix MX-7000 or MXW-9001 where VOC regulations require use.
- Sand surface "white" or "gold" (3M 7445 or equal).
- Clean item with Matrix MX-7000 or MXW-9001 where VOC regulations require use.

*TPO and Polypropylene should first be treated with MP-800.

***Tech Tip:** The use of clean, lint free towels is encouraged in the cleaning process to minimize the likelihood of contamination to the substrate materials.

As a Surfacer

MIXING RATIO



MP-1000 : MA-1000
4 Parts : 1 Part

POT LIFE



Hardener
MA-1000

Time
2-3 Hours

Temp
77°F

GUN SETUP



Gun Type
Air Gunza
Devilbiss PRI

Size
1.8 mm
1.8 mm

Air Pressure
18-22 psi at gun inlet
16-20 psi at gun inlet

APPLICATION



Apply 1-3 coats.

DRY & FLASH TIME INFORMATION



DRY TIMES AT 77° F

FLASH TIME (AFTER 1ST COAT) 5-8 MINUTES
FLASH TIME (AFTER 2ND COAT) 5-12 MINUTES
TO SAND APPROX 1 HOUR

Note: The fastest overall dry time and best sanding properties, are achieved when product is allowed to flash thoroughly between coats. The dry time before sanding should be 15-30 minutes per coat depending on temperature, when used as directed.

As a Sealer

MIXING RATIO



MP-1000 : MC-1000 : MA-1000
2 Parts : 2 Parts : 1 Part

POT LIFE



<u>Hardener</u>	<u>Time</u>	<u>Temp</u>
MA-1000	2-3 Hours	77°F

GUN SETUP



<u>Gun Type</u>	<u>Size</u>	<u>Air Pressure</u>
IWATA LPH400	1.3 mm	15-18 psi at gun inlet
TEKNA PROLITE	1.3 mm	16-20 psi at gun inlet

APPLICATION



Apply 1-2 coats.

DRY & FLASH TIME INFORMATION - SEALER



DRY TIMES AT 77° F

FLASH TIME (AFTER 1ST COAT) 10-15 MINUTES
FLASH TIME (AFTER 2ND COAT) 30-60 MINUTES
After flash product is ready for topcoat. If second coat is desired reapply MP-1000 (sealer version) and allow to flash prior to topcoat.
Recoat with topcoat up to 6-8 hours*.

Note: After 6 hours product should be allowed to dry (overnight) and sanded P600-P800 wet or P320-P400 dry before proceeding with topcoat. Before re-application as a sealer, sand with P320-P400 dry or 3M 7447 or equivalent.

*Recoat time may vary depending on film thickness and temperature.

RECOATING



May be recoated with any Matrix Brand topcoat including:

For areas requiring 3.5 VOC:

MPB-LV Matrix System Premium Low VOC Basecoat
MSB-LV Matrix System Low VOC Basecoat
AQUALUTION Premium Waterborne Basecoat

For National Rule area:

MPB Matrix System Premium Basecoat
MSB Matrix System Basecoat
MAU Single Stage Acrylic Urethane
MCU Single Stage Mixed Colors

ADDITIVES



ACCELERATOR
Not Recommended.



FISH EYE
Not Recommended.

EQUIPMENT CLEANUP



Clean equipment immediately after use according to local regulations.

TECHNICAL DATA

Color: Grey
Hardener: MA-1000
Sealer Converter: MC-1000
Mix Ratio (Surfacer): 4:1
Mix Ratio (Sealer): 2:2:1

Property	Surfacer	Sealer
Viscosity on #2 Zahn EZ RTS	18 - 26 seconds	15 - 19 seconds
Volume Solids RTS	37 - 41%	23 - 27%
Weight Solids RTS	51 - 55%	33 - 37%
Dry Film Build in mils per full wet coat	2.0 - 2.5	1.0 - 1.2
Coverage in square feet per gallon @ 1 dry mil	1620	1405
Pot life in hours	>2	>2

V.O.C. as Delivered:	Regulatory VOC in lbs/gal	Regulatory VOC in g/l	Material VOC in lbs/gal	Material VOC in g/l
MP-1000	2.0	243	1.2	142
MC-1000	1.9	228	0.2	28
MA-1000	0.9	113	0.3	31
V.O.C. (RTS):				
MP-1000/MA-1000	1.9	229	1.0	120
MP-1000/MC-1000/MA-1000	1.8	220	0.6	75

Disposal/Safety: see MSDS for this product
Humidity Resistance: Good - Excellent
Salt Spray Resistance: Good - Excellent

FOR INDUSTRY USE ONLY

Read MSDS Before Use

The contents of the package must be blended with other components before the product can be used. Any mixture of components will have hazards of all components. Before opening the packages, read all warning labels. Follow all precautions.

The material is designed for application only by professionally trained personnel using proper equipment under controlled conditions, and is not intended for sale to the general public.

SEE MSDS AND PRODUCT LABELS FOR ADDITIONAL SAFETY INFORMATION.

Put it to the test!
www.matrixsystem.com