MP-210

DIRECT-TO-METAL SEALER

MATRIX SYSTEM AUTOMOTIVE FINISHES

Technical Data Sheet

Technical Hotline 800.612.6567

DESCRIPTION

MP-210 DTM Sealer is a premium direct-to-metal (DTM) sealer offering smooth application over a wide range of conditions. MP-210 provides excellent adhesion and corrosion resistance and can be used directly on most substrates.

QUICK REFERENCE

What: MP-210 Direct-to-Metal Sealer.

Mix: 4:1 with MA-200 Activator.

Application: 1-2 single flowing coats with topcoat gun.

Time: Dry to finish in 30 minutes to 4 hours.

Recoat: Topcoat with any Matrix System brand topcoat.

REQUIRED COMPONENTS

Product	Description
MP-210	Direct-to-Metal Sealer
Activator	
MA-200	Direct-to-Metal Primer Activator
Reducer	
Not Required	

COMPATIBLE SUBSTRATES

Any Matrix System 2K Primer Surfacer
Steel (For areas exceeding 6" two (2) coats are recommended to enhance corrosion resistance and improve adhesion properties)
Fiberglass
OEM E-Coat
OEM Finishes
Plastics
*Body Filler should be finished with an appropriate sanded surfacer.
*** Not recommended for use on bare Aluminum.**

PREPARATION

For best results pre clean objects to be painted before sanding. To "pre clean" an object to be painted wash thoroughly with soap and water, then, follow with MX-9000 Pre-Prep Wax & Grease Remover using a clean lint free cloth.

PRIMER

PREPARATION CONT'D

Steel

1. Clean repair area with Matrix MX-9000 Pre-Prep Wax & Grease Remover or MXW-9001 Low VOC Cleaner/Degreaser, where VOC regulations require use.
2. Sand with P240 -P320 grit dry.
3. Clean repair area with Matrix MX-8000 Final Prep Pre-Paint Cleaner or MXW-9001 Low VOC Cleaner/Degreaser, where VOC regulations require use.

Fiberglass (Gel coated or SMC surface)

1. Clean repair area with MXW-9001 Low VOC Cleaner/Degreaser.
2. Sand surface with P320-P400 grit dry.
3. Clean repair area with MXW-9001 Low VOC Cleaner/Degreaser.

Body Filler

*MP-210 can be applied direct over polyester body fillers, however, where straightening is required a proper sanding surfacer such as MP-200 DTM primer is required.

1. Body filler should be final sanded with P150-P220 grit dry prior to applying MP-210.
2. Body filler should be kept within the repair area. Do not feather body filler directly into the surrounding paint.
3. The surrounding finish should be feathered in with P320-P400 grit dry.

***Tech Tip:** If cleaning of the body filler is needed after sanding, use only MXW-9001 Low VOC Cleaner/Degreaser. Do not saturate the body filler. Allow extra dry time to assure polyester filler is completely dry.

Existing OEM finishes

1. Clean repair area with Matrix MX-9000 Pre-Prep Wax & Grease Remover or MXW-9001 Low VOC Cleaner/Degreaser where VOC regulations require use.
2. Sand the existing OEM finish with P320-P400 grit dry.
3. The MP-210 DTM Sealer application should be kept within the sanded area of the existing finishes.

OEM E-Coat

1. MP-210 DTM Sealer can be applied directly to properly cleaned unsanded & sanded OEM E-Coat.
2. Clean panel with Matrix MX-9000 Pre-Prep Wax & Grease Remover or MXW-9001 Low VOC Cleaner/Degreaser where VOC regulations require use.
3. To correct surface imperfections feather edge any damaged E-Coat area with P320-P400 grit dry. The remainder of the panel may be prepared using a red scuff pad (3M 7447 or equal)
4. Clean panel with Matrix MX-8000 Final Prep Pre-Paint Cleaner or MXW-9001 Low VOC Cleaner/Degreaser where VOC regulations require use.

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

Plastic

1. Wash item with warm soap and water.
2. Clean repair area with Matrix MXW-9001 Low VOC Cleaner/Degreaser where VOC regulations require use.
3. Sand surface "white" or "gold" (3M 7445 or equal).
4. Clean repair area with Matrix MXW-9001 Low VOC Cleaner/Degreaser where VOC regulations require use.

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

MIXING RATIO

4 parts MP-210 to 1 part MA-200.

ADDITIVES

Adding additional materials to a ready to spray product will increase the V.O.C as applied. Check mixture and local regulations to assure compliance.

Accelerator	Not Recommended
Retarder	Not Recommended
Fisheye	Not Recommended
Flattening	Not Recommended
Flex Additive	Not Required

POT LIFE

2+ hours @ 70˚ F/21˚ C.

***Tech Tip:** Pot life will shorten as temperatures increase. Matrix System products are not recommended for use in temperatures below 65˚ F.

GUN SETUP

Gun Type	*Size*	*Air Pressure*
HVLP	1.3-1.4 mm	6-10 @ the cap
High Efficiency (RP)	1.3-1.4 mm	16-22 psi @ inlet

*Refer to individual gun manufacturer for proper spray gun settings.

APPLICATION

Apply 1-2 single flowing coats. A 3rd coat is not recommended and may lead to excessive build, extended dry times, and compromised topcoat performance. Allow complete flash times between coats to achieve best through dry and topcoat performance.

DRY/FLASH TIMES

A properly flashed surface will appear dull and dry to touch. Times are approximate.

DRY TIMES AT 70° F/21˚ C

FLASH TIME (AFTER 1ST COAT)	10-20 minutes
FLASH TIME (AFTER 2ND COAT)	20 + minutes
TO TOPCOAT	after flash (surface should be dull & dry to touch)

FORCE DRYING AT 140˚ F/60˚ C

Not required, or advised.

SPECIAL CONSIDERATIONS

Extreme temperatures and high film build applications will extend dry times and shorten recoat time as much as 50%.

RECOATING

MP-210 DTM Sealer may be recoated with any Matrix System brand topcoat after flash dry. MP-210 DTM Sealer must be topcoated within 4 hours @ 70˚ F/21˚ C*. After 4 hours sand per color recommendations and apply color or follow preparation instruction for existing finishes and re-apply 1 coat of MP-210.
*When used on large jobs above 90˚ F/32˚ C apply topcoat within 3 hours or follow alternate instructions above.

EQUIPMENT CLEANING

Clean equipment immediately after use according to local regulations.

TECHNICAL

Color:	Grey
Primer:	MP-210
Activator:	MA-200
Mix Ratio:	4:1
Weight Solids (RTS):	46.7%
Volume Solids (RTS):	32.9%
Film Build:	1.0 mils dry per full wet coat
Coverage:	528 sq. ft. per gallon @ 1 dry mil

V.O.C. as Delivered:	Regulatory VOC lbs/gal	Regulatory VOC g/l	Material VOC lbs/gal	Material VOC g/l
MP-210	2.2	259	1.1	128
MA-200	0.9	113	0.3	31
V.O.C. (RTS):				
MP-210/MA-200	2.0	241	0.9	109

Disposal/Safety: see MSDS for this product

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.
NOTE: Matrix Systems products are not recommended for use in temperatures below 65°F. Use below these temperatures will effect dry times and performance.