

MATRIX SYSTEM BASECOAT

Technical Data Sheet

Technical Hotline 800.735.0303

<u>PRODUCT NUMBER</u>	<u>DESCRIPTION</u>
MSB	MATRIX SYSTEM BASECOAT

<u>REDUCERS</u>	<u>DESCRIPTION</u>
MR-0860	PREMIUM URETHANE REDUCER - COOL TEMP
MR-0870	PREMIUM URETHANE REDUCER - MEDIUM TEMP
MR-0885	PREMIUM URETHANE REDUCER - WARM TEMP
MR-0895	PREMIUM URETHANE REDUCER - HOT TEMP
MR-0898	PREMIUM URETHANE REDUCER - EXTREME TEMP

DESCRIPTION

Matrix System Basecoat (MSB) was formulated to reproduce the color and appearance of the OEM coating applied to your vehicle at the factory. Matrix System Basecoat (MSB) may be used for spot, panel or overall repairs.

COMPATIBLE SUBSTRATES

- MP-120 SERIES SEALERS®
- MP-EPOXIES
- OEM FINISHES*
- MP-35 SEALER
- 2KPB PRIMER
- MP-2K PRIMER
- MP3-HS PRIMER
- MP4-2K DTM PRIMER
- MP-850 SEALER
- PPG® V-SEAL®
- PPG® DPLF® EPOXIES
- DuPont® VALUESHADE®

**Tech Tip:* Proper sanding and cleaning is required to insure the best possible results are obtained.

SURFACE PREPARATION



1. Finish sand repair areas with 400-600 grit or equivalent.
2. Clean repair areas with MX-8000 Pre Paint Cleaner or MXW-9001 where VOC regulations require its use. Wipe off any MXW-9001 residue with a clean damp cloth.
3. Use a tack cloth to remove any surface contaminants that may have settled on the repaired areas prior to paint application.
3. Apply MSB Basecoat.

**Tech Tip:* For maximum product performance seal repaired areas with MP-120 Series sealers, choose a sealer shade that will enhance the basecoat colors hiding capabilities or a color shade that closely resembles the basecoat color the vehicle will be.

**Tech Tip:* Extend basecoat dry times to 30 minutes when applying several base color coats, tri coat colors, multiple graphic overlays, or in cooler shop conditions before applying clearcoats.

MIXING RATIO



MSB : MR-0800 SERIES REDUCERS
1Part : 1-1/2 Parts

***Tech Tip:** The use of MX-57 is highly recommended for solid colors or AccuShade™ formulas containing large amounts of black toners.

MIXING RATIO WITH MX-57

Option 1: MSB MR-REDUCER MX-57
1 Part 1-1/2 Parts 1.5 oz per RTS qt.

Option 2: MSB MR-REDUCER MX-57
1 Part 1-1/2 Parts 5% (by volume)

Option 3: MSB MR-REDUCER MX-57
16 Oz. 16 Oz. 42.5grams

Option 3: Add 10% by volume to unreduced MSB basecoat. Then reduce MSB as normal.

Note: MX-57 Basecoat Activator is highly recommended for best performance.

Note: Agitate basecoats using a mechanical paint shaker to ensure metallics are in solution prior to reduction. Mix (by volume) 1 parts paint to 1-1/2 parts reducer to 1.5 oz. MX-57 per RTS qt. Reduce only with MR-0800 Series Reducers based on temperature range.

Note: MX-57 Basecoat activator is recommended for use whenever elevated film builds such as those resulting from applying multi stage finishes. See the MX-57 Technical Data Sheet for additional information.

Note: Using temperature correct reducers is critical in the application of paint finishes and failure to use the correct temperature reducer can result in a myriad of problems associated with coatings drying too fast or drying too slow.

Mix thoroughly before use. Product must be discarded after 2 hours when using MX-57.

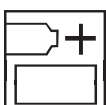
POT LIFE



<u>Basecoat Activator</u>	<u>Time</u>	<u>Temp</u>
MX-57	2 Hours	77° F Highly Recommended
Without MX-57	INDEFINITE	77° F

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

ADDITIVES



ACCELERATOR
Accelerator is not recommended for use in this product.



FISH EYE ELIMINATOR
Fish Eye Eliminator is not recommended for use in this product.

APPLICATION



Apply 2-3 medium wet coats or until hiding is achieved at 35-45 psi or (8-10 psi when using HVLP at the aircap), allowing a 10-15 minute flash time between coats. Allow the final coat of MSB to dry 15-30 minutes at 77° F. before applying clearcoat. Do not allow to dry longer than 24 hours without clearcoating or MSB must be lightly scuffed and a additional coat of MSB basecoat must be applied.

Note: Basecoat colors are designed to dry to a low gloss. This makes color match and its approval difficult to see until the clearcoat is applied.

A good technique to ensure color match and/or blendability is to spray the basecoat and clearcoat on a small test panel before doing the actual repair. Color match cannot be fully determined without clearcoating the test panel.



GUN TYPE	<u>HVLP</u>	<u>Conventional</u>
SIZE	1.3 - 1.5 mm	1.3 - 1.5 mm
PSI	8 - 10 at Aircap	35 - 45 at Gun



BLENDING

MSB-500 may be used to aid color blending when experiencing difficulty with metallic control to help achieve an undetectable blend area, for specific instructions refer to the MSB-500 Technical Data Sheet.

***Tech Tip:** When blending MSB color extend each coat out past the previous coat graduating the color out from the repair area until an undetectable bland has been achieved.

TAPE TIME

Tape time on MSB is 35-45 minutes at 77° F.

REPAIRING & RECOATING



MSB may be recoated after 15-30 minutes or up to 24 hours at 77°F with itself, it may be scuffed after 30 minutes at 77°F if necessary. After 24 hours depending on temperature/humidity, MSB must be lightly scuffed and a additional coat of MSB basecoat must be applied to restore color uniformity.

ARTWORK & INTERCOAT CLEAR



DO NOT TAPE DIRECTLY ONTO THE BASECOAT WHENEVER POSSIBLE! If artwork is planned, apply 1 or 2 medium coats of MSB-500 or Matrix clearcoat to protect the underlying paint layer from mishaps such as tape marks, chemical spills or etc that may damage layers applied at a prior date. In addition, the protective clearcoat is easier to sand imperfections out of and will not require to be repainted with color after sanding. See tech sheet for more information on MSB-500 or Matrix clearcoat.

CLEARCOAT

All Matrix clearcoats may be used over MSB Series Basecoats.

EQUIPMENT CLEANUP



Clean equipment immediately after use with MX-110 Gun Wash or a high quality lacquer thinner.

TECHNICAL DATA

	<u>Standard Reduction</u>	<u>With MX-57</u>
Mixing Ratio:	1:1 1/2	1.5 oz. per RTS qt of MSB
Viscosity #2 Zahn (RTS):	15 - 18 seconds	15 - 18 seconds
Film Build per coat:	0.4 - 0.6 mils	0.4 - 0.6 mils
Pot Life:	None, mix thoroughly	2 hours
Coverage (Depending on color):	190-275 sq. ft.	160-241 sq. ft.
Dust Free:	10 minutes	10 minutes
Tack Free:	15 minutes	15 minutes
Tape Time:	35-45 minutes	35-45 minutes
V.O.C. (RTS):	5.7 - 6.6 lbs/gal	5.9 - 6.4 lbs/gal
Disposal/Safety:	See MSDS for this product	See MSDS for this product

NOTE: Matrix System products are not recommended for use in temperatures below 60°F. Use below these temperatures will effect dry times and performance.

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