

MPB-LV



MATRIX SYSTEM PREMIUM LOW VOC BASECOAT

Technical Data Sheet

Technical Hotline 800.735.0303

DESCRIPTION

A premium automotive refinish basecoat that, when used as directed, will allow a painter to achieve solid color, metallic, pearl, and Xirillac, colors and effects in areas requiring 3.5 VOC color coat. It is a viable, fully capable, alternative to the cost, and difficulty, of converting to a waterborne technology.

REQUIRED COMPONENTS:

| <u>PRODUCT NUMBER</u> | <u>DESCRIPTION</u> |
|-----------------------|--|
| MPB-LV | MATRIX SYSTEM PREMIUM LOW VOC BASECOAT |

| <u>REDUCERS</u> | <u>DESCRIPTION</u> |
|-----------------|-------------------------------------|
| MBR-100 | LOW TEMP/SMALL JOB UP TO 70° F |
| MBR-200 | MEDIUM TEMP/MEDIUM JOB 70° - 80° F |
| MBR-300 | HIGH TEMP/LARGE JOB 80° - 90° F |
| MBR-400 | HIGH TEMP/LARGE JOB 90° F AND ABOVE |

| <u>COMPATIBLE SUBSTRATES</u> | <u>PREPARATION</u> | | |
|------------------------------|--------------------|------------|--------------------|
| | <i>wet</i> | <i>dry</i> | <i>non-sanding</i> |
| OEM Finishes | P600-P-800 | P-320-P400 | |

For areas requiring 2.1 VOC undercoats:

| | | | |
|------------------------------------|------------|------------|----------|
| MP-1000 DTM Primer/Surfacer/Sealer | P600-P-800 | P-320-P400 | possible |
|------------------------------------|------------|------------|----------|

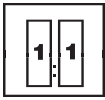
For National Rule area:

| | | | |
|----------------------------------|------------|------------|-------------|
| MP-Series Epoxy Primer | P600-P-800 | P-320-P400 | possible |
| MP-550 Self Etching Primer | P600-P-800 | P-320-P400 | possible |
| MP-800 Plastic Adhesion Promoter | | | recommended |
| MP-2KGR 2K Urethane P/S | P600-P-800 | P-320-P400 | |
| MP-2K Quick Sand Urethane P/S | P600-P-800 | P-320-P400 | |
| MP3-HS High Build Urethane P/S | P600-P-800 | P-320-P400 | |
| MP4-2K Lightning P/S | P600-P-800 | P-320-P400 | |
| MP-Series AccuShade 2K P/S | P600-P-800 | P-320-P400 | recommended |

PREMIUM
BASECOAT

MIXING RATIO

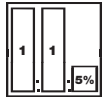
As a standard basecoat:



MPB-LV : MBR SERIES REDUCERS
1 Part : 1 Part

When mixed in this manner the product will have an infinite pot life and when stored properly in a closed container, can be saved for future use.

As a mid coat or when intended for multi layer paint effects:



MPB-LV : MBR SERIES REDUCERS : MX-57
1 Part : 1 Part : 5%

When mixed in this manner the product will have a pot life of approximately 2 hours and should be mixed when ready for use for best results.

APPLICATION

**Tech Tip:* With any color, performing and evaluating a spray out prior to spraying the object can greatly increase productivity. If a colored undercoat is desired it can be achieved with a solid color MPB-LV formulation.



Apply 1-3 coats depending on coverage and effect desired (will be indicated with spray out).

GUN SETUP



| <u>Gun Type</u> | <u>Fluid Tip</u> | <u>Air Cap</u> | <u>Inlet Pressure PSI</u> | <u>Approx. Distance</u> |
|-----------------|------------------|----------------|---------------------------|-------------------------|
| Iwata LPH400 | 1.3 - 1.4 | LVX | 14 - 16 | 5" - 7" |
| Tekna Prolite | 1.3 - 1.4 | TE10 | 16 - 20 | 5" - 7" |
| SATA RP3000 | 1.3 | N/A | 22 - 26 | 5" - 7" |

DRY & FLASH TIME INFORMATION



DRY TIMES AT 77° F

| | |
|-----------------------------|---------------|
| FLASH TIME (AFTER 1ST COAT) | 5-10 MINUTES |
| FLASH TIME (AFTER 2ND COAT) | 7-12 MINUTES |
| FLASH TIME (AFTER 3RD COAT) | 10-15 MINUTES |

TAPING AND ARTWORK

If artwork is planned a layer MPB-500LV may be applied over, or between, layers of MPB-LV to "protect" artistic effects from being smudged or otherwise damaged as work continues.

Taping directly onto fresh MPB-LV application should be avoided. When taping allow extra dry time and consider the use of MPB-500LV (as described above) for additional protection. If the surface becomes smudged or damaged it must be repaired and an additional layer applied to restore intended color and appearance.

RECOATING



Basecoat is ready for clearcoat application when flash dry. The basecoat will “feel” dry (firm and not wet) to touch. Test, with gloved hand, on masking or non essential area of job. When applying three stage colors, or artistic effects, allow extra dry time between layers and before clearcoating. Clearcoating, or recoating with itself, should be done within 24 hours of initial application. If repair to basecoat is needed, repairing, such as sanding, and recoating with itself, can be done at anytime once dry.

MPB-LV can be recoated directly with any Matrix Clearcoat including:

For areas requiring 2.1 VOC:

MSV-21 2.1 VOC Urethane Clearcoat

AG-40LV 2.1 Urethane Clearcoat

For areas requiring 4.2 VOC:

MS-20 High Performance Urethane Clearcoat

MS-42 Ultra Gloss Urethane Clearcoat

MS-15 Quick Cure Clearcoat

MS-30 Super Speed Urethane Clearcoat

MS-52 Universal Urethane Clearcoat

AG-40 Autoglas Euro Design Clearcoat

ADDITIVES



ACCELERATOR

Not Recommended.



FISH EYE

Not Recommended.

FLATTENING

Not Recommended.

FLEX ADDITIVE

Not Recommended.

EQUIPMENT CLEANUP



Clean equipment immediately after use according to local regulations.

TECHNICAL DATA

| | |
|--------------------------------|--|
| Color: | Various |
| Reducer: | MBR Series Reducers |
| Mixing Ratio: | 1:1 or 1:1 + 5% |
| Viscosity #2 Zahn (RTS): | 15 - 18 seconds |
| Weight Solids: | 23.16 - 49.57% |
| Film Build: | 0.3 - 0.5 mils per full |
| Coverage (Depending on color): | 144 - 225 sq. ft. per gallon @ 1 dry mil |

| | | | | |
|----------------------|------------------------------|--------------------------|----------------------------|------------------------|
| 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 |
|----------------------|------------------------------|--------------------------|----------------------------|------------------------|

| | | | | |
|----------------------|-----|-----|-----|-----|
| MPB-LV | 3.1 | 373 | 1.4 | 166 |
| MBR-100 | 7.8 | 938 | 0.1 | 10 |
| MBR-200 | 7.8 | 938 | 0.1 | 11 |
| MBR-300 | 7.8 | 938 | 0.1 | 12 |
| MBR-400 | 0.0 | 0 | 0 | 0 |
| MX-57 | 2.3 | 281 | 2.3 | 281 |
| V.O.C. (RTS): | | | | |
| MPB-LV/MBR-100 | 3.2 | 386 | 0.7 | 88 |
| MPB-LV/MBR-100/MX-57 | 3.1 | 367 | 0.8 | 97 |
| MPB-LV/MBR-200 | 3.2 | 387 | 0.7 | 88 |
| MPB-LV/MBR-200/MX-57 | 3.1 | 368 | 0.8 | 97 |
| MPB-LV/MBR-300 | 3.2 | 388 | 0.7 | 89 |
| MPB-LV/MBR-300/MX-57 | 3.1 | 369 | 0.8 | 98 |
| MPB-LV/MBR-400 | 3.1 | 373 | 0.7 | 83 |
| MPB-LV/MBR-400/MX-57 | 3.0 | 356 | 0.8 | 92 |

Disposal/Safety: see MSDS for this product
MSDS Reference: MPB-LV-1

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