Matrix Automotive Finishes
PREMIUM BASECOAT

Technical Data Sheet
Technical Hotline 800.735.0303

PRODUCT NUMBER DESCRIPTION
MPB Matrix Automotive Finishes PREMIUM BASECOAT

REDUCERS DESCRIPTION
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 Premium Basecoat (MPB) offers exceptional hiding, with the ease of application and use. (MPB) will provide the performance you expect from a premium refinishing system for both import and domestic vehicles.

COMPATIBLE SUBSTRATES
- MP-120 SERIES SEALERS®
- MP-35 SEALER
- MP-850 SEALER
- MP-EPOXIES
- 2KPB PRIMER
- MP-2K PRIMER
- MP3-HS PRIMER
- MP4-2K DTM PRIMER
- OEM FINISHES*
- 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 contaminates that may have settled on the repaired areas prior to paint application.
3. Apply MPB 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

[1:1] MPB : MR-0800 SERIES REDUCERS
1 Part : 1 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: MPB MR-REDUCER MX-57
1 Part 1 Parts 1.5 oz per RTS qt.

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

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

Option 4: Add 10% by volume to unreduced MPB basecoat. Then reduce MPB 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 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

<table>
<thead>
<tr>
<th>Basecoat Activator</th>
<th>Time</th>
<th>Temp</th>
</tr>
</thead>
<tbody>
<tr>
<td>MX-57</td>
<td>2 Hours</td>
<td>77°F</td>
</tr>
<tr>
<td>Without MX-57</td>
<td>INDEFINITE</td>
<td>77°F</td>
</tr>
</tbody>
</table>

*Tech Tip: Pot life will shorten as temperatures increase. Matrix Automotive Finishes 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 MPB to dry 15-30 minutes at 77° F before applying clearcoat. Do not allow to dry longer than 24 hours without clearcoating or MPB must be lightly scuffed and an additional coat of MPB basecoat must be applied to restore color uniformity.

*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.**

<table>
<thead>
<tr>
<th>GUN TYPE</th>
<th>HVLP</th>
<th>Conventional</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIZE</td>
<td>1.3 - 1.5 mm</td>
<td>1.3 - 1.5 mm</td>
</tr>
<tr>
<td>PSI</td>
<td>8 - 10 at Aircap</td>
<td>35 - 45 at Gun</td>
</tr>
</tbody>
</table>

**BLENDING**

MPB-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 MPB-500 Technical Data Sheet.

*Tech Tip:* When blending MPB 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 MPB is 20-40 minutes at 77° F. When using MX-57 tape time on MPB is 30-60 minutes at 77° F.

**REPAIRING & RECOATING**

MPB 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, MPB must be lightly scuffed and a additional coat of MPB 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 MPB-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 MPB-500 or Matrix clearcoat.
**CLEARCOAT**
All Matrix clearcoats may be used over MPB Series Basecoats.

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

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th></th>
<th>Standard Reduction</th>
<th>With MX-57</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>Various</td>
<td>Various</td>
</tr>
<tr>
<td>Mixing Ratio:</td>
<td>1:1</td>
<td>1.5 oz. per RTS qt of MPB</td>
</tr>
<tr>
<td>Viscosity #2 Zahn (RTS):</td>
<td>15 - 18 seconds</td>
<td>15 - 18 seconds</td>
</tr>
<tr>
<td>Film Build:</td>
<td>0.4 mils</td>
<td>0.4 mils</td>
</tr>
<tr>
<td>Pot Life:</td>
<td>None, mix thoroughly</td>
<td>2 Hours</td>
</tr>
<tr>
<td>Coverage (Depending on color):</td>
<td>144-225 sq. ft.</td>
<td>160-241 sq. ft.</td>
</tr>
<tr>
<td>Dust Free:</td>
<td>10 minutes</td>
<td>10-15 minutes</td>
</tr>
<tr>
<td>Tack Free:</td>
<td>15-20 minutes</td>
<td>20-30 minutes</td>
</tr>
<tr>
<td>Tape Time:</td>
<td>20-40 minutes</td>
<td>30-60 minutes</td>
</tr>
<tr>
<td>V.O.C. (RTS)</td>
<td>6.0 - 6.6 lbs/gal</td>
<td>5.9 - 6.4 lbs/gal</td>
</tr>
<tr>
<td>Disposal/Safety:</td>
<td>see SDS for this product</td>
<td>see SDS for this product</td>
</tr>
</tbody>
</table>

NOTE: Matrix Automotive Finishes 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 SDS 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 SDS AND PRODUCT LABELS FOR ADDITIONAL SAFETY INFORMATION.