MP4-2K Lightning Primer Surfacer uses an Isocyanate free 2K technology that dries in under an hour and sands easily for reduced cycle times on small areas. As a direct to metal primer surfacer, MP4-2K offers excellent corrosion protection, adhesion, and great sand scratch holdout. MP4-2K reduces the need for additional primers on small jobs, or for bare metal areas where sandthroughs occur.

**QUICK REFERENCE**

What: MP4-2K Lightning Cure Primer Surfacer.

Mix: 4:1 with MA4-2K activator.

Application: 2-3 coats with primer gun.

Time: Dry to sand in about an hour.

Recoat: Topcoat with any Matrix Automotive Finishes brand topcoat.

**REQUIRED COMPONENTS**

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP4-2K</td>
<td>Lightning Primer Surfacer</td>
</tr>
<tr>
<td>Activator</td>
<td>Lightning Activator</td>
</tr>
<tr>
<td>MA4-2K</td>
<td></td>
</tr>
<tr>
<td>Reducer</td>
<td>Not Required</td>
</tr>
</tbody>
</table>

**COMPATIBLE SUBSTRATES**

Steel  
Aluminum  
Fiberglass  
Bodyfiller  
OEM E-Coat  
OEM Finishes

**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 clean paper towels.
**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 P80 grit dry.
3. Clean repair area with MX-8000 Final Prep Pre-Paint Cleaner or MXW-9001 Low VOC Cleaner/Degreaser, where VOC regulations require use.

**Aluminum**
2. Thoroughly sand surface with “red” scuff pad (3M 7447 or equal)

**Fiberglass (Gel coated or SMC surface)**

**Body Filler**
1. Body filler should be final sanded with P150-P220 grit dry prior to applying MP4-2K.
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 P220-P320 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 P220-P320 grit dry.
3. The MP4-2K application should be kept within the sanded area of the existing finishes.

**OEM E-Coat**
1. MP4-2K can be applied directly to properly cleaned & 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 P220-P320 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, towels is encouraged in the cleaning process to minimize the likelihood of contamination to the substrate materials.
**MIXING RATIO**
4 parts MP4-2K to 1 part MA4-2K.

**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.*

<table>
<thead>
<tr>
<th>Additive</th>
<th>Recommendation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accelerator</td>
<td>Not Recommended</td>
</tr>
<tr>
<td>Retarder</td>
<td>Not Recommended</td>
</tr>
<tr>
<td>Fisheye</td>
<td>Not Recommended</td>
</tr>
<tr>
<td>Flattening</td>
<td>Not Recommended</td>
</tr>
<tr>
<td>Flex Additive</td>
<td>Not Recommended</td>
</tr>
</tbody>
</table>

**POT LIFE**
2-4 hours @ 70˚F/21˚C.

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

**GUN SETUP**

<table>
<thead>
<tr>
<th>Size</th>
<th>Air Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.8 mm</td>
<td>16-22 psi at the gun inlet</td>
</tr>
</tbody>
</table>

**APPLICATION**

Apply 2-3 medium coats. Allow complete flash times between coats to achieve best through dry and sanding properties.

**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) 5-10 minutes
- Flash Time (After 2nd Coat) 10-20 minutes
- To Sand 45 minute per layer
- To Topcoat after sanding

**FORCE DRYING AT 140˚F/60˚C**

- Purge Time 15 minutes
- Bake Time 20 minutes

**SPECIAL CONSIDERATIONS**

Extreme temperatures and high film build applications will extend dry times.

**RECOATING**

MP4-2K Lightning Primer Surfacer may be recoated after a 2 hour dry at 70˚F/21˚C or after a minimum 1 hour cool down after force drying.
**EQUIPMENT CLEANING**

Clean equipment immediately after use according to local regulations.

**TECHNICAL**

Color: Grey  
Primer: MP4-2K  
Activator: MA4-2K  
Weight Solids (RTS): 60.9%  
Volume Solids (RTS): 38.5%  
Film Build: 1.3 - 1.5 mils per full coat  
Coverage: 617 sq. ft. per gallon @ 1 dry mil  

<table>
<thead>
<tr>
<th>V.O.C. as Delivered:</th>
<th>Regulatory VOC lbs/gal</th>
<th>Regulatory VOC g/l</th>
<th>Material VOC lbs/gal</th>
<th>Material VOC g/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP4-2K</td>
<td>4.1</td>
<td>490</td>
<td>4.1</td>
<td>490</td>
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<tr>
<td>MA-2K</td>
<td>5.8</td>
<td>694</td>
<td>5.8</td>
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<tr>
<td>V.O.C. (RTS):</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MP4-2K/MA-2K</td>
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<td>530</td>
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</tr>
</tbody>
</table>

Disposal/Safety: see SDS for this product  

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