

# MP4-2K

## LIGHTNING™ PRIMER SURFACER

### Technical Data Sheet

Technical Hotline 800.735.0303

### PRODUCT NUMBER

MP4-2K

### DESCRIPTION

LIGHTNING PRIMER SURFACER

### ACTIVATORS

MA4-2K

MA5-2K

### DESCRIPTION

LIGHTNING ACTIVATOR

SLOW ACTIVATOR

### REDUCERS

\*NOT RECOMMENDED

### DESCRIPTION

NOT RECOMMENDED

*\*Tech Tip:* The use of urethane grade solvents will increase the VOC of MP4-2K above the 4.8 lbs/gl compliance regulation, and may contribute to solvent pop, delamination or other related problems.

### DESCRIPTION

MP4-2K with Lightning Cure Technology dries in 45 minutes and sands easily for reduced cycle times. 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 for bare metal areas less than 6" in diameter.

### COMPATIBLE SUBSTRATES

- OEM FINISHES
- GALVANIZED STEEL
- BARE METAL
- ALUMINUM
- FIBERGLASS
- E-COAT

*\*Tech Tip:* Compatible substrates are required to be properly cleaned, sanded and treated prior to applying any primer surfacer. To obtain maximum performance always treat bare metal with a quality metal conditioning system, for areas larger than 6" prime with Matrix System MP-550 or MP-600 Self Etching Primer or Epoxy Primer MP-400 Series.

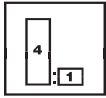
### SURFACE PREPARATION



1. Wash area thoroughly with soap and water to remove contaminants that solvent based cleaners cannot remove effectively.
2. Clean repair area with Matrix MX-9000 Strong Wax & Grease Remover or MXW-9001 where VOC regulations require use.
3. Completely sand surface with 180-220 grit sandpaper or equivalent and repeat step 2.
4. Apply Matrix System MP4-2K Lightning Primer Surfacer.

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

## MIXING RATIO



MP4-2K : MA4-2K/MA5-2K  
4 Parts : 1 Part

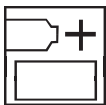
## POT LIFE



<u>Hardener</u>	<u>Time</u>	<u>Temp</u>
MA4-2K/MA5-2K	2 - 4 Hours	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**  
N/A



**FISH EYE**  
Do not use fish eye eliminator in this product.

## APPLICATION



Apply 2 coats with a 5-10 minute flash time @ 77° F between each coat. Use 20-35 psi at the gun or 8-10 psi at the cap when using HVLP. Allow MP4-2K to dry 45 minutes at 77° F before sanding. Matrix System Automotive Finishes, Inc. recommends a final blocking with 600 grit or finer sandpaper before topcoating. For maximum performance seal MP4-2K prior to topcoating.

***NOTE: IN HOT HUMID CONDITIONS ABOVE 80° F THE USE OF MA5-2K SLOW ACTIVATOR IS REQUIRED.*** Apply 2 coats with a 5-10 minute flash time between each coat. Use 20-25 psi at the gun or 6-8 psi at the cap when using HVLP. Allow MP4-2K to dry 45 minutes at 77° F before sanding.

\*Application of primer using the "outside/in" spray technique is commonly used to eliminate bullseye's.

\**Tech Tip:* Film thickness, flash times, and temperature may affect sanding times. In ***extreme heat*** the use of reducer (10% max) may be needed.



<u>GUN TYPE</u>	<u>HVLP</u>	<u>Conventional</u>
<u>SIZE</u>	1.5 - 2.1mm	1.5 - 2.1mm
<u>PSI</u>	6 - 10 at Air cap	20 - 35 at Gun

***PAINTING FLEXIBLE PARTS***  
N/A

## DRY & FLASH TIME INFORMATION



### **DRY TIMES AT 77° F**

FLASH TIME  
TO SAND  
TO TOPCOAT

### **MA4-2K**

5-10 MINUTES  
45 MINUTES  
45 MINUTES

### **MA5-2K**

10-15 MINUTES  
45 MINUTES  
45 MINUTES



### **FORCE DRYING AT 140° F**

PURGE TIME  
BAKE TIME AT 140°F

15 MINUTES  
20 MINUTES

## REPAIRING & RECOATING



MP4-2K Urethane Primer Surfacer may be recoated after a 2 hour dry at 77°F or after a minimum 1 hour cool down after force drying at 140°F for 20 minutes. After 2 hour dry time, MP4-2K must be sanded before recoating.

## EQUIPMENT CLEANUP



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

## TECHNICAL DATA

Color:	Grey
Primer:	4 parts MP4-2K
Activator:	1 part MA4-2K or MA5-2K
Weight Solids (RTS):	61%
Film Build:	1.3 - 1.5 dry mils per full wet coat
Coverage:	617 sq. ft. per gallon at 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.
MP4-2K	4.1	490	4.1	490
MA4-2K	5.8	694	5.8	694
MA5-2K	5.5	663	5.5	663
V.O.C. (RTS):				
MP4-2K/MA4-2K	4.4	531	4.4	531
MP4-2K/MA5-2K	4.4	525	4.4	525

Disposal/Safety:	see MSDS for this product
Lead/Chromate:	None
Humidity Resistance:	Excellent
Salt Spray Resistance:	Excellent
MSDS Reference #	MX-SD2

### 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.

***Put it to the test!***  
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