



GENERAL INFORMATION

Matrix Edge™ MP-470 2.1 VOC Epoxy Primer - Black provides excellent adhesion and corrosion resistance to properly prepared metal, fiberglass and aluminum substrates as well as plastic body fillers. 2.1 VOC Epoxy Primer - Black features an easy-to-use 1:1 mixing ratio and may be topcoated with Matrix Edge 2K Primer Sealer, Matrix Edge Single Stage and Matrix Edge Basecoat/Clearcoat.



1. COMPONENTS

- MP-470 2.1 VOC Epoxy Primer - Black
- MAV-465 2.1 VOC Epoxy Primer Activator



2. MIXING RATIO (1:1)

- Mix one (1) part MP-470 2.1 VOC Epoxy Primer - Black with one (1) part of MAV-465 2.1 VOC Epoxy Primer Activator.
- * Grey Shade Mixing Ratio chart in section 14.



3. POT LIFE @ 77°F (25°C)

- 12 hours

NOTE: Pot life will shorten as temperatures increase. Matrix Edge System products are not recommended for use when panel temperature is below 60°F



4. CLEAN UP

- Clean equipment immediately after use (check local regulations)



5. SURFACE 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 MXW-9001 Low VOC Cleaner/Degreaser using clean lint-free rags.



Steel

1. Clean panel with appropriate Matrix Edge surface cleaner based on local regulatory compliance.
2. Final sand with P180 grit or finer.
3. Re-clean panel with appropriate Matrix Edge surface cleaner based on local regulatory compliance.

Aluminum

1. Clean panel with MXW-9001 Low VOC Cleaner/Degreaser.
2. Final sand with P180 grit or finer.
3. Re-clean panel with MXW-9001 Low VOC Cleaner/Degreaser.

Fiberglass (Gel coated or SMC surface)

1. Clean panel with appropriate Matrix Edge surface cleaner based on local regulatory compliance.
2. Final sand with P180 grit or finer.
3. Re-clean panel with appropriate Matrix Edge surface cleaner based on local regulatory compliance.

Body Filler

1. Body filler should be final sanded with P180 grit or finer.
2. Re-clean panel with appropriate Matrix Edge surface cleaner based on local regulatory compliance.

Existing OEM Finishes

1. Clean panel with appropriate Matrix Edge surface cleaner based on local regulatory compliance.
2. If using as a primer surfacer, sand the existing OEM finish with P180 grit or finer. If using as a sealer, sand the existing OEM finish with P320 grit or finer.
3. Re-clean panel with appropriate Matrix Edge surface cleaner based on local regulatory compliance.
4. The MP-470 application should be kept within the sanded area of the existing finishes.

OEM E-Coat

1. Clean panel with appropriate Matrix Edge surface cleaner based on local regulatory compliance.
2. If using as a primer surfacer, final sand with P180 grit or finer. If using as a sealer, final sand with P320 grit or finer.
3. Re-clean panel with appropriate Matrix Edge surface cleaner based on local regulatory compliance.

6. TOPCOATS

- Matrix Edge 2K Urethane Primers
- Matrix Edge Basecoat/Clearcoat
- Matrix Edge 2K Sealers
- Matrix Edge Single Stage



7. TECH NOTES

- N/A



8. SUBSTRATES (Properly Prepared)

- Steel
- Aluminum
- Galvanized Steel
- SMC
- Fiberglass
- Polycarbonate
- Body Fillers
- ABS
- Cured and sanded OE finishes



9. APPLICATION

- Apply 2-3 single coats (approx. 1.0-1.5 mils DFT per coat) Allow 10-20 minutes flash time between coats.

*NOTE: DO NOT apply MP-470 over Etch Primer

10. RECOAT

- Top coat within 48 hours. If time exceeds 48 hours the primer must be sanded and cleaned prior to application of additional primer or top coat.

11. SANDING

- Dry & DA: P400-P600
- Water Sanding: P500-P600

If used as instructed, this product is designed to comply with Volatile Organic Compound (VOC) Standards in low-VOC jurisdictions, for Automobile Refinish Coatings. Confirm compliance with state and local air quality rules before use. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. **UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.** Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.



12. FLASH / DRY TIMES

A properly flashed surface will appear dull and dry to touch. Times are approximate.

Flash	10-20 minutes
Air Dry	1-2 hours
Baking	30 minutes @ metal temp. of 140°F/60°C
Short Wave	10 minutes
Sanding	12 hours

NOTE: Single layer applications can be topcoated directly after flash of 15-30 minutes up to 6 hours, after which sanding is required. Two layer applications must be sanded prior to topcoating.



13. SPRAY GUN SET UP

High Efficiency	1.4 mm - 1.6 mm
HVLP	1.4 mm - 1.5 mm

AIR PRESSURES

- Refer to spray gun manufacturer's recommendations for regulatory compliance



14. PHYSICAL DATA

RTS REGULATORY DATA	1:1	
	LBS./GAL.	g/L
Actual VOC	0.94 max	112 max
Regulatory VOC (less water and exempt solvents)	1.96 max	235 max
Density	11.1 - 11.5	1330-1380
	WT. %	VOL. %
Total Solids Content	42-45	34-36
Total Volatile Content	55-58	65-66
Water	0	0
Exempt Compound Content	47-49	51-52
Coating Category	Primer	

Code	Description	Grey Shade					
		GS-1	GS-2	GS-3	GS-4	GS-5	GS-6
		Ratio	Ratio	Ratio	Ratio	Ratio	Ratio
MP-460	Grey Epoxy	1 Part	4 Parts	3 Parts	2 Parts	1 Part	0 Parts
MP-470	Black Epoxy	0 Parts	1 Part	1 Part	1 Part	1 Part	1 Part

NOTES

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