

# MS-78 4.4 VOC Euro Urethane Clearcoat



#### **GENERAL INFORMATION**

MS-78 Euro Clearcoat is a medium solids European Style 2:1 mix clearcoat for spot, panel, and overall refinishing. This clearcoat is an economical choice, is extremely versatile.

#### 1. COMPONENTS

- MS-78
   4.4 VOC Euro Urethane Clearcoat
- MH-78F 4.4 VOC Euro Clearcoat Fast Hardener
- MH-78N 4.4 VOC Euro Clearcoat Normal Hardener
- MH-78S 4.4 VOC Euro Clearcoat Slow Hardener

#### 2. MIXING RATIO (2:1)

 Mix two (2) parts MS-78 4.4 VOC Euro Urethane Clearcoat with one (1) part MH-78 Series urethane Hardeners.



### POT LIFE @ 77°F (25°C) Sprayable 30-60 minutes.

\*NOTE: Pot life will shorten as temperatures increase. Matrix System products are not recommended for use in temperatures below 65°F



#### 4. CLEAN UP

Clean equipment immediately after use (check local regulations)

#### 5. ADDITIVES

• <u>Accelerator:</u> 1/2oz per sprayable quart. MX-081 or MX-084 accelerator may be helpful to assure proper curing in colder weather when air dry is the only option.

 <u>Retarder:</u> 10-15% per sprayable quart. Retarder MR-899 will retard, or slow the initial dry allowing slightly more time for overspray to melt in to the surface when spraying in high temperatures, high humidity, or large jobs
 <u>Fisheye Eliminator:</u> 1/2oz per sprayable quart. MX-01 is generally discouraged, however, when used as recommended, it may help minimize the surface reaction to contamination. The use of this additive is not a substitute for proper cleaning and preparation.

• Flex Additive: 10% to ready to spray MS-78.

#### 6. SURFACE PREPARATION

FOR APPLICATION OVER RECOMMENDED BASECOAT SYSTEM ONLY • Allow basecoats sufficient dry times

#### OEM BLEND AREAS

Option 1:

Clean blend area with appropriate Matrix surface cleaner based on local regulatory compliance.

- Scuff blend area with gray scuff pad and sanding paste
- · Sanding paste must be thoroughly washed away
- Reclean blend area with Matrix surface cleaner prior to topcoating

Option 2:

- Clean blend area with appropriate Matrix surface cleaner based on local regulatory compliance
- Sand blend areas with P800 P1000 grit paper, for hard to reach areas scuff with gray scuff pad
- · Reclean blend area with Matrix surface cleaner prior to topcoating

\*NOTE: Option 1 and 2 the OEM Blend area must be scuffed or sanded completely dull





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#### 8. TECH NOTES

• Matrix does not recommend nor warranty the blending of clear coats. Over reduction or solvent blending of the clear coat will become visible over time due to UV exposure on the blended edge. The edge may also fade or peel over time due to the minimal film thickness of the blended edge.

• Matrix recommends applying clear coat to the entire panel. Many of today's late model cars do not have a distinct edge or a break line on the quarter panel, in these cases Matrix recommends applying the clear coat to the roof and the opposite quarter panel.

• This procedure will assure a professional repair, that returns the vehicle back to pre accident condition



#### 9. SUBSTRATES

All Matrix Refinish Basecoats

Existing OEM Finishes

#### **10. APPLICATION**

Apply two (2) to three (3) single wet coats.
Where clearcoating can't be continued to edge of panel the clearcoat edge can be "melted" with MX-840 EZ Blend Edge Blender
\*See Tech Notes for additional information

### 11. FLASH / DRY TIMES

$\mathbf{S}$		
Flash (after 1st coat)	5-10 minutes	
Flash (after 2nd coat)	10-15 minutes	
Out-of-Booth	30-45 minutes depending on temp	
Deliver/Polishing/Recoating	8-12 hours	

#### Force Drying @ 140°F (60°C)

Purge Time	10 minutes
Bake Time	40 minutes
Deliver/Polishing/Recoating	After 1 hour cool down

\*NOTE: Dry times may vary due to temperature, humidity, film thickness and airflow. If extreme color sanding and buffing is needed allow overnight dry time.



#### 12. SPRAY GUN SET UP

HVLP/LVLP - Fluid Tip Size	1.3 mm - 1.4 mm

#### AIR PRESSURES

Refer to spray gun manufacturer's recommendations for regulatory compliance



If used as instructed, this product is designed to comply with the US National Volatile Organic Compound (VOC) Emission Standard for Automobile Refinish Coatings. Confirm compliance with state and local air quality rules before use. The data on this sheet represent typical values. 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 ALLIMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR APARTICULAR 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.



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#### 13. PHYSICAL DATA

RTS REGULATORY DATA <u>WITHOUT</u> ADDITIVES	2:1	
	LBS./GAL.	g/L
Actual VOC	3.40	408
Regulatory VOC (less water and exempt solvents)	4.43	531
Density	7.95	953
	WT.%	VOL.%
Total Solids Content	38.0	31.4
Total Volatile Content	62.0	68.6
Water	0	0
Exempt Compound Content	19.2	23.2
Coating Category	Clea	rcoat

**NOTE:** US Regulations allow for the use of exempt compounds for VOC calculations.

WORST CASE RTS REGULATORY DATA <u>WITH</u> ADDITIVES	2:1:5%:1.5%:10% (MS-78:MH-78S:MR-899:MX-01:MX-841)	
	LBS./GAL.	g/L
Actual VOC	3.45	414
Regulatory VOC (less water and exempt solvents)	4.47	536
Density	7.95	953
	WT.%	VOL.%
Total Solids Content	37.7	31.2
Total Volatile Content	62.3	68.8
Water	0	0
Exempt Compound Content	18.9	22.8
Coating Category	Clearcoat	

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