

MSV-25

LOW VOC QUICK CURE URETHANE CLEARCOAT

Technical Data Sheet

Technical Hotline 800.735.0303



How to video

DESCRIPTION

MSV-25 Low VOC Quick Cure Clearcoat is designed for quick repairs over a wide temperature range in areas that require a 2.1 VOC Clearcoat. This product is intended for small, 1-2 panel size jobs. MSV-25 Low VOC Quick Cure Clearcoat can be polished, or delivered same day without baking.

QUICK REFERENCE

What: A 2.1 VOC fast dry spot repair clear.

Mix: 4:1 with MHV-25 Low VOC Quick Cure Clearcoat hardener

Application: 2-3 coats.

Time: 1-2 hours.

Recoat: Yes, when dry.

REQUIRED COMPONENTS

<u>Product</u>	<u>Description</u>
MSV-25	Low VOC Quick Cure Clearcoat

<u>Hardener</u>	
MHV-25	Low VOC Quick Cure Clearcoat Hardener

<u>Reducer</u>	
Not Recommended	

COMPATIBLE SUBSTRATES

MPB Matrix System Premium Basecoat
MPB-LV Matrix System Premium Low VOC Basecoat
MSB Matrix System Basecoat
MSB-LV Matrix System Low VOC Basecoat
Aqualution
Existing OEM Finishes

CLEARCOAT



PREPARATION

1. Allow the final coat of basecoat to dry to touch prior to applying clearcoat.
2. Use a tack cloth to remove any surface contaminants that may have settled on the basecoat.
3. Apply MSV-25 Low VOC Quick Cure Urethane Clearcoat.

EXISTING FINISH

Sand surface with P600-P800 wet or P500-P600 dry, and then clean with MX-8000 Paint Cleaner or MXW-9001 Low VOC Cleaner/Degreaser.

BLEND AREAS BEYOND COLOR

Scuff sand with grey scuff pad (3M 7448 or equal), then clean with MX-8000 Paint Cleaner or MXW-9001 Low VOC Cleaner/Degreaser.



MIXING RATIO

4 parts MSV-25 to 1 part MHV-25 hardener.

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.



Accelerator Not Recommended.



Retarder Retarder MR-899 will retard, or slow, the initial flash dry allowing slightly more time for the overspray to melt in to the surface when spraying in high temperatures, high humidity, or large jobs.



Fisheye 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.



Flattening MX-85 or MX-85LV can be used to adjust the gloss level of Matrix System clearcoats to meet specific customer needs. For custom effects, safety, or anti glare requirements, a sprayout to determine exact gloss level, is strongly recommended.



Flex Additive Not Recommended.



POT LIFE

1-2 hours @ 70° F/21° C.

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



GUN SETUP

Gun Type	Fluid Tip	Air Cap	Inlet PSI	Approx. Distance
Iwata LPH400	1.3 - 1.4	LVX	14 - 16	5" - 7"
Tekna Prolite	1.3 - 1.4	TE10	16 - 20	5" - 7"
SATA RP4000	1.3 - 1.4	N/A	22 - 26	5" - 7"



APPLICATION

Apply 2-3 single coats. Where clearcoating can't be continued to edge of panel the clearcoat edge can be "melted" with MX-840 EZ Blend Edge Blender.



DRY/FLASH TIMES

DRY TIMES AT 70° F/21° C

FLASH TIME (AFTER 1ST COAT)	1-3minutes
FLASH TIME (AFTER 2ND COAT)	3-5 minutes
OUT OF BOOTH	15-30 minutes depending on temperature
DELIVER/POLISHING	1+ hours



RECOATING

MSV-25 may be repaired and recoated after overnight dry at 70° F/21° C.



POLISHING

2 COATS	60-90 minutes
3 COATS	90+ minutes

***Tech Tip:** Temperature, humidity and film thickness will affect buff times. If extreme color sanding and buffing is needed allow overnight dry time.



EQUIPMENT CLEANING

Clean equipment immediately after use according to local regulations.

TECHNICAL

Clear: MSV-25
Hardener: MHV-25
Mixing Ratio: 4:1
Viscosity #2 Zahn (RTS): 17 - 19 seconds #2 Zahn
Weight Solids (RTS): 33.52%
Volume Solids (RTS): 31.59%
Film Build: 1.0 - 1.5 mils per full wet coat
Coverage: 507 sq. ft. per gallon @ 1 dry mil

V.O.C. as Delivered:	Regulatory VOC lbs/gal	Regulatory VOC g/l	Material VOC lbs/gal	Material VOC g/l
MSV-25	1.0	121	0.3	39
MHV-25	3.5	422	3.5	422
V.O.C. (RTS):				
MSV-25/MHV-25	2.1	253	1.0	115

Disposal/Safety: see MSDS for this product

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.

CLEARCOAT