

# MS-20

## HIGH PERFORMANCE URETHANE CLEARCOAT

### Technical Data Sheet

Technical Hotline 800.735.0303

### PRODUCT NUMBER

MS-20

### DESCRIPTION

HIGH PERFORMANCE URETHANE CLEARCOAT

### HARDENERS

MH-005

MH-006

### DESCRIPTION

PREMIUM HARDENER NORMAL

PREMIUM HARDENER SLOW

### REDUCERS

NOT RECOMMENDED

### DESCRIPTION

NOT RECOMMENDED

### DESCRIPTION

MS-20 is a very easy to spray, extremely durable high gloss clearcoat that gives you an excellent finish under a wide range of applications. The durability and color stability make this clear a great choice for paint jobs you will live with for years to come.

### COMPATIBLE BASECOATS/TOPCOATS

- MPB
- MSB
- MAU\*
- MCU\*
- DBU®
- DBC®
- DAU®\*
- Omni®
- CHROMAPREMIER®
- CHROMABASE®
- Nason®
- Dimension®
- Ultra 7000®
- GLASURIT 55®
- LIMCO SUPREME®
- Autobase®

*\*Tech Tip:* For clearcoat integration technique refer to specific manufacturers single stage finish technical data sheet.

### SURFACE PREPARATION



1. Allow the final coat of basecoat to dry 30 minutes prior to applying clearcoat.
2. Use a tack cloth to remove any surface contaminants that may have settled on the basecoat.
3. Apply MS-20 Clearcoat.

*\*Tech Tip:* Extend basecoat dry time to 30 minutes when applying several base color coats, tri coat colors, multiple graphic overlays, or in cooler shop conditions.

## MIXING RATIO



MS-20  
2 Parts : MH-005/006  
1 Part

## FLATTENING ADDITIVE MIXING RATIO

Clearcoat	Gloss	Ounces of MX-85	MR-0800 Series Reducer	Ounces of Hardener
MS-20 32 Oz. (1 Qt.)	<i>Flat</i>	25	0	16
	<i>Eggshell</i>	19	0	16
	<i>Semi-Gloss</i>	14	0	16

## POT LIFE



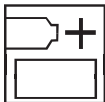
Hardener  
MH-005/006

Time  
4-6 Hours

Temp  
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**

Use up to 1/2 fluid ounce of MX-081 or MX-084 Accelerator with **MH-005** Hardener per sprayable quart. The addition of MX-081 or MX-084 will reduce cure times by 50%. The use of MX-081 will **reduce** pot life by 50%. The use of MX-081 will not increase VOC in areas where acetone is exempt.



### **FISH EYE**

The use of fish eye eliminator is strongly discouraged. If a fish eye additive is needed, use MX-01 urethane fish eye eliminator, mix 1/2 ounce per sprayable quart. Use no more than necessary as it will directly affect the flow out of MS-20.

## APPLICATION



Apply 2-3 full wet coats at 40-50 psi or (6-10 psi when using HVLP at the aircap), allowing a 10-15 minute flash time between coats.



<b>GUN TYPE</b>	<u>HVLP</u>	<u>Conventional</u>
<b>SIZE</b>	1.3 - 1.7 mm	1.3 - 1.7 mm
<b>PSI</b>	6 - 10 at Aircap	40 - 50 at Gun

## **APPLICATION CONT'D**

### ***PAINTING FLEXIBLE PARTS***

A flexible additive may be needed when painting certain flexible parts.

MS-20 : MH-005/006 : MX-841  
2 Parts : 2 Parts : 1 Part

**\*Tech Tip:** Full panel only when part is off the vehicle, it is not necessary to add MX-841 when the part is mounted on the vehicle. Reference the MX-841 Technical data Sheet for additional information.



### ***BLENDING***

Dry edges can be blended in by reducing clearcoat 100%-150% and lightly misting the area to be blended out.

**\*Tech Tip:** When blending clearcoat, use MR-Reducer one temperature range slower than was used during application (i.e. MR-0870 used during application, switch to MR-0885 to blend clearcoat edge in).

## **DRY & FLASH TIME INFORMATION**



### ***DRY TIMES AT 77° F***

FLASH TIME	<u>MH-005/006</u> 10-15 MINUTES
TO SAND	16-24 HOURS
TO DELIVER	16-24 HOURS



### ***FORCE DRYING AT 140° F***

PURGE TIME	15 MINUTES
BAKE TIME AT 140°F	40 MINUTES

## **REPAIRING & RECOATING**



MS-20 may be recoated after a 16 Hour dry at 77°F, or after a minimum 1 hour cool down after force drying at 140°F for 30 minutes.

## **BUFFING**



Allow 16-24 hours before sanding or buffing MS-20. Temperature, humidity and film thickness will affect buff times. When force drying, allow 1 hour cool down before buffing or polishing MS-20.

## **EQUIPMENT CLEANUP**



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

## TECHNICAL DATA

Clear: 2 parts MS-20  
Hardeners: 1 part MH-005, MH-006  
Viscosity (RTS): 20 - 25 seconds #2 Zahn  
Weight Solids (RTS): 48%  
Film Build: 1.0 - 1.4 mils per full wet coat  
Coverage: 704 sq. ft. per gallon @ 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.
MS-20	4.5	539	4.5	539
MH-005	3.9	470	3.9	470
MH-006	3.7	444	3.7	444
V.O.C. (RTS):				
MS-20/MH-005	4.3	516	4.3	516
MS-20/MH-006	4.2	508	4.2	508

Disposal/Safety: see MSDS for this product  
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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