

# MS-100

## MATTE URETHANE CLEARCOAT

### Technical Data Sheet

Technical Hotline 800.735.0303

#### PRODUCT NUMBER

MS-100

#### DESCRIPTION

MATTE URETHANE CLEARCOAT

#### HARDENERS

MH-110

#### DESCRIPTION

MATTE HARDENER

#### REDUCERS

NOT RECOMMENDED

#### DESCRIPTION

NOT RECOMMENDED

#### DESCRIPTION

MS-100 is a 4.4 VOC Matte Clearcoat with an easy 6:1 mix ratio. MS-100 is designed to produce a 5° - 15° gloss level. MS-100 sprays easily and dries quickly.

#### COMPATIBLE BASECOATS/TOPCOATS

- MPB
- MSB
- DBU®
- DBC®
- Ultra 7000®
- Glasurit 55®
- Autobase®
- Omni®
- CHROMAPREMIER®
- CHROMABASE®
- LIMCO SUPREME®
- Dimension®

#### SURFACE PREPARATION



1. Allow the final coat of basecoat to dry 15-30 minutes prior to applying clearcoat.
2. Use a tack cloth to remove any surface contaminants that may have settled on the basecoat.
3. Apply Matrix System 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-100 : MH-110  
6 Parts : 1 Part

CLEARCOAT

## POT LIFE



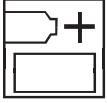
Hardener  
MH-110

Time  
4-5 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**

Do not use accelerator with MS-100.



### **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-100.

## APPLICATION



Apply 2 even 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.

**NOTE:** Wet coats will produce more gloss. Drier coats will produce a flat finish. Uneven coating can produce varied gloss levels in the finish.



GUN TYPE  
SIZE  
PSI

HVLP  
1.3 - 1.5 mm  
6 - 10 at Aircap

Conventional  
1.3 - 1.5 mm  
40 - 50 at Gun

*\*Tech Tip:* MS-100 is not recommended for use on flexible substrates.



### **BLENDING**

Not applicable.

*\*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  
TO DELIVER

### MH-110

10-15 MINUTES  
16-24 HOURS



### **FORCE DRYING AT 140° F**

PURGE TIME  
BAKE TIME AT 140°F

15 MINUTES  
30 MINUTES

## **REPAIRING & RECOATING**



MS-100 may be recoated after a 24 Hour dry at 77°F, or after a minimum 1 hour cool down after force drying at 140°F for 30 minutes.

## **BUFFING**



Not applicable.

## **EQUIPMENT CLEANUP**



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

## **TECHNICAL DATA**

Clear: 6 parts MS-100  
Hardeners: 1 part MH-110  
Viscosity (RTS): 17 - 19 seconds #2 Zahn  
Weight Solids (RTS): 35.61%  
Film Build: 0.8 - 1.0 mils per full wet coat  
Coverage: 452 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-100	4.6	548	3.2	381
MH-110	3.8	450	3.8	450
V.O.C. (RTS):				
MS-100/MH-110	4.4	529	3.3	390

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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