

## 3.5 VOC POLYURETHANE SYSTEM

### Technical Data Sheet

Technical Hotline 800.735.0303

#### PRODUCT NUMBER

MSU SERIES

#### DESCRIPTION

3.5 VOC POLYURETHANE SYSTEM

#### HARDENER

MSH-30

#### DESCRIPTION

3.5 VOC POLYURETHANE HARDENER

#### REDUCERS

MR-0800

#### DESCRIPTION

REDUCER SERIES  
3.5 VOC COMPLIANT SOLVENT

#### DESCRIPTION

A high solids, high gloss, low VOC polyurethane coating intended for use as a protective maintenance coating for industrial applications and surfaces exposed to humidity, chemicals and corrosive elements.

#### COMPATIBLE SUBSTRATES

- MP-120 SERIES SEALERS
- MP3-HS PRIMER
- MP-2K PRIMER
- MPV-2K PRIMER
- OEM FINISHES\*
- MP6-SS PRIMER
- MP-35 SEALER
- 2KPB PRIMER
- MP-EPOXY PRIMER

\**Tech Tip:* Proper sanding and cleaning is required to insure the best possible results are obtained.

#### SURFACE PREPARATION



1. Finish sand repair areas with 400-600 wet, 320 dry grit or equivalent.
2. Clean repair areas with MX-8000 Pre Paint Cleaner or MXW-9001 where VOC regulations require its use. Wipe off any MXW-9001 residue with a clean damp cloth.
3. Use a tack cloth to remove any surface contaminants that may have settled on the repaired areas prior to paint application.
4. Apply appropriate sealer on bare metal areas.
5. Apply MSU 3.5 VOC Polyurethane color.

#### MIXING RATIO (NATIONAL VOC COMPLIANCE)



MSU : MSH-30 : MR-0800  
4 Parts : 1 Part : 1 Part

**MIXING RATIO (3.5 VOC COMPLIANCE)**



MSU : MSH-30 : 3.5 VOC Compliant Solvent  
 4 Parts : 1 Part : 1 Part

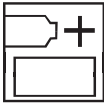
**POT LIFE**



Hardener : Time : Temp  
 MSH-30 : 4 Hours minimum : 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**

Accelerator may be used to shorten dust and tack free times.



**FISH EYE ELIMINATOR**

Use up to 1 ounce of MX-01 to 1 gallon of MSU.

**APPLICATION**



Adjust air pressure to 40-50 psi at gun for gravity or siphon feed guns or HVLP use 6-10 psi at air cap. Apply 2-3 medium coats (maximum 2 mils wet per coat) or until hiding is achieved. Allow a 15-20 minute flash time between coats and before force drying.



<b>GUN TYPE</b>	<b>HVLP</b>	<b>Conventional</b>
<b>SIZE</b>	1.4 - 1.8 mm	1.5 - 1.8 mm
<b>PSI</b>	6 - 10 at Aircap	40 - 50 at Gun

**DRY & FLASH TIME INFORMATION**



**DRY TIMES AT 77° F**  
 FLASH TIME : 15-20 MINUTES  
 TO DELIVER : 3-5 DAYS



**FORCE DRYING AT 140° F**  
 PURGE TIME : 15 MINUTES  
 BAKE TIME AT 140°F : 40 MINUTES

**RECOATING**



MSU may be recoated after 16-24 hours at 77°F. MSU must be lightly sanded/scuffed before additional color or clearcoat may be applied.

**EQUIPMENT CLEANUP**



Clean equipment immediately after use with MX-110 Gun Wash, or a high quality lacquer thinner, or compliant solvent depending on area regulations.

## **TECHNICAL DATA**

Color:	Various
Mixing Ratio:	4:1:1
Viscosity #2 Zahn (RTS):	30 - 35 seconds #2 Zahn
Weight Solids (RTS):	59.9 - 63.9%
Film Build per coat:	Recommended 2 mils
Pot Life:	4 hours minimum
V.O.C. (RTS) @ 4:1:	3.5 lbs/gal
Disposal/Safety:	See MSDS for this product

We specifically state that there is no warranty with this product.

NOTE: Matrix System products are not recommended for use in temperatures below 60°F. Use below these temperatures will effect dry times and performance.

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.**

**3.5 VOC POLYURETHANE**

***Put it to the test!***  
**[www.matrixsystem.com](http://www.matrixsystem.com)**