



### GENERAL INFORMATION

The ESS Urethane Single Stage intermix quality is formulated to provide fast cure times without sacrificing the final appearance. This new technology has excellent sag resistance and coverage. The metallic and pearl orientation accurately represents OEM finishes.



### 1. COMPONENTS

- ESS Mixed Single Stage Color
- MH-010 Urethane Activator
- MBR-1100 Fast Reducer
- MBR-1200 Medium Reducer
- MBR-1300 Slow Reducer



### 2. MIXING RATIO (4:1:2)

- Mix four (4) parts ESS Single Stage with one (1) part MH-010 Urethane Activator and two (2) parts MBR series reducer.



### 3. Pot Life

- 3 hours at 70°F (21°C)



### 4. CLEAN UP

- Clean equipment immediately after use (check local regulations)



### 5. ADDITIVES

- N/A



### 6. SURFACE PREPEARATION

- Surfaces should be prepared using the proper undercoat system following recommended procedures



### 7. SUBRATES

- MP-231 – MP-235 DTM Surfer / Sealer
- OEM Topcoats
- Previously painted surfaces properly prepared



### 8. APPLICATION

- Apply two (2) to three (3) coats – Gun distance of 6-8 inches.
- Apply an even wet coat, without missed areas
- Allow to flash 8-10 minutes or hand slick before applying second coat. A drop or orientation coat can be used for metallic colors to help achieve uniform metallic orientation.
- Recommended film build is 2.0 – 3.0 mils dry.



### 9. FLASH/DRY TIMES - AIR DRY @77°F (25°C)

- 30 minutes at 120°F surface temperature
  - Lower surface temp requires longer bake time

#### • Air Dry

Dust Free	In as little as 30 minutes
To Buff***	In as little as 60 minutes
To Deliver	In as little as 90 minutes

#### • 100°F Surface Temperature

Dust Free	40 Minutes
To Buff***	Allow to cool 20 min.
To Deliver	Allow to cool 20 min.

#### • 110°F Surface Temperature

Dust Free	35 Minutes
To Buff***	Allow to cool 20 min.
To Deliver	Allow to cool 20 min.

#### • 120°F Surface Temperature

Dust Free	30 Minutes
To Buff***	Allow to cool 20 min.
To Deliver	Allow to cool 20 min.



### 10. BUFFING

- If necessary, a light polishing can be done after 24 hours
- Please note that metallic colors should not be buffed. Buffing of metallic colors will distort the direction of the metallics
- Sanding should be limited to de-nibbing imperfections.



### 11. NOTES

- If fisheyes are a problem, add ½ ounce of MX-02 Fisheye Eliminator per sprayable quart.
- Max recoat time between coats is 15-20 minutes.
- Integrating clearcoat – 4 parts ready to spray color to 1 part ready to spray Matrix clearcoat.
- If desired, clearcoat can be applied after the final coat has flashed hand slick or prior to 12 hours.

If used as instructed, this product is designed to comply with Volatile Organic Compound (VOC) Standards in low-VOC jurisdictions, 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 ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR 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.



## 12. PERSONAL PROTECTION

- Read label, directions, and SDS before use and refer to SDS for specific information
- Wear NIOSH approved organic vapor respirator when using this product.
- Wear NIOSH approved dust particulate mask when sanding, mixing, or applying this product.
- Keep product, paint, and overspray off the skin. Wear goggles, coveralls, and chemical protective gloves when using this product.
- Visit [www.PaintDocs.com](http://www.PaintDocs.com) for PDS and SDS documents.



## 13. Physical Data

- Confirm compliance with national, state, and local air quality rules before use.

Regulatory Data: 4:1:2		
MBR-1300 Reducer		
	lb./gal	g/L
Actual VOC	1.60	192
Regulatory VOC (less water and exempt solvents)	2.75	329
Density	9.42	1129
	WT.%	VOL.%
Total Solids Content	37.0	36.4
Total Volatile Content	63.0	63.6
Water	0.0	0.0
Exempt Compound Content	46.0	41.6
Coating Category	Single Stage	

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