



### MBPX 3.5 VOC Acrylic Urethane Basecoat / M799 Converter

**This updated TDS is intended for revised MBPX formulas (which contain M799). If using historic filed MBPX color match formulas (which contain M736) see original version TDS - must use MH238 hardener in the ready to spray blend for historic filed MBPX formulas**

#### Background

MBPX is a fast drying, high hiding acrylic basecoat designed for today's automotive collision centers. For VOC compliance, MBPX basecoat must be top coated with a compliant OMNI™ clear coat.

#### MBPX Acrylic Urethane Basecoat

**Color**  
MBPX 3.5 VOC Acrylic Urethane Basecoat (M799 Converter)  
**Reducer**

MR294 Fast (55°F-65°F), MR295 Medium (65°F-75°F), MR296 Slow (75°F-85°F), MR297 Retarder (85°F-95°F)

#### Compatible Substrates

Cured, cleaned & sanded OEM and refinish enamels  
Any compliant *Omni* primer including:  
MP243 Polyester Primer  
MP801 2.1 VOC Multi Purpose Primer - White  
MP802 2.1 VOC Multi Purpose Primer - Gray  
MP803 2.1 VOC Multi Purpose Primer - Black  
MP831 2.1 VOC 1K Primer Surfacer - Gray  
MP871 2.1 VOC Epoxy Primer - Gray  
MP891 2.1 VOC Urethane Sealer - White  
MP895 2.1 VOC Urethane Sealer - Gray  
MP897 2.1 VOC Urethane Sealer - Dark Gray  
SX1071 Etch Prime - *Must be primed prior to topcoating*

#### Preparation

**Surface cleaning**  
SWX350 H<sub>2</sub>O-SO-CLEAN™, SXA330 Wax and Grease Remover, SX1009 2.9 VOC Bug and Tar Remover

**Sanding**  
400 grit (machine or dry hand) or 500 grit (wet) on old finishes and primer surfacers

#### Mixing

##### Ratios

	<b>Standard.</b>	<u>MBPX</u>	:	<u>MR29x</u>		
		1	:	1		
	<b>*High Temp</b>	<u>MBPX</u>	:	<u>MR297</u>	:	<u>MH238</u>
		1	:	1	:	5%

**\*Note:** As an option for high temperature applications above 90F, the use of MH238 hardener and MR297 solvent are recommended.

**Pot Life** 1 : 1 Indefinite  
1:1:5% 6 hours at 70°F (21°C)

**Tinting:** MBPX color may be tinted up to 10% with OMNI mixing bases

**Additives:** None

#### Application

##### Coats



2 coats or until hiding

##### Air pressure



HVLP 10 psi at the air cap  
Compliant 29 - 40 psi at the gun

##### Gun setup

1.3 - 1.5 mm or equivalent

#### Dry Times

##### Between coats



5 - 10 minutes at 70°F (21°C)

##### Air dry



Tape: 45 minutes  
Clear: 20 minutes minimum, 24 hours maximum at 70°F (21°C) to clearcoat

#### Clean Up

Clean spray guns, gun cups, storage pots, etc., thoroughly with MR Reducer, MS151 Low VOC General Purpose Solvent or another appropriate clean up solvent after each use. Follow EPA guidelines for proper storage and disposal of solvent-borne waste paint.

#### Properties

##### VOC

##### Film build per coat

Applied (1:1) 0.5 - 0.6 mil

##### Square foot coverage at 1 mil

Applied (1:1) 174 - 277 sq. ft. / gal. 100% transfer  
Applied (1:1:5%) 227 - 364 sq. ft. / gal. 100% transfer

<b>RTS Combinations:</b>	<b>MBPX (Package)</b>	<b>MBPX : MR29x</b>	<b>MBPX : MR297 : MH238</b>
Volume Ratio:	N/A	1 : 1	1 : 1 : 5%
Applicable Use Category	Color Coating	Color Coating	Color Coating
VOC Actual (g/L)	104 - 296	53 - 149	53 - 144
VOC Actual (lbs/gal)	0.87 – 2.47	0.44 – 1.24	0.44 – 1.20
VOC Regulatory (less water less exempt) (g/L)	290 - 419	290 - 419	247 - 379
VOC Regulatory (less water less exempt) (lbs/gal)	2.42 – 3.49	2.42 – 3.49	2.06 - 3.16
Density (g/L)	912 - 1184	1058 – 1231	1063 – 1258
Density (lbs/gal)	7.61 - 9.88	8.83 -10.54	8.87 -10.50
Volatiles wt. %	51.3 - 74.7	75.9 – 89.8	73.3– 86.4
Water wt. %	0.1	0.0 – 0.1	0.0 – 0.1
Exempt wt. %	25.7 – 59.3	65.6 – 88.8	63.11 – 79.8
Water vol. %	0.1	0.0 – 0.1	0.0 – 0.1
Exempt vol. %	29.1 – 63.9	64.5 – 82.0	62.1 – 78.7

#### **Limitations**

*Omni* products should not be combined with components of other product lines.

#### **Precautionary Information:**

The contents of this package may have to be blended with other components before the product can be used. Before opening the packages, be sure you understand the warning messages on the labels of all components, since the mixture will have the hazards of all its parts. Spray equipment must be handled with due care and in accordance with manufacturer's recommendations. Follow label directions for respirator use. Wear eye and skin protection. Observe all applicable precautions.

#### **Medical Response:**

EMERGENCY MEDICAL OR SPILL CONTROL INFORMATION (412) 434-4515; IN CANADA (514) 645-1320.

#### **Material Safety Data Sheet:**

Material Data Safety Sheets for the PPG products mentioned in this publication are available through your PPG *Omni* Distributor. To the best of our knowledge, the technical information in this bulletin is accurate; however, since PPG Industries is constantly improving its coating and paint formulas, the current technical data may vary somewhat from what was available when this bulletin was printed. Contact your *Omni* Distributor for the most up-to-date information.

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