

MBPX

OMNI® Plus 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

OMNI® 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.

Components

Color

MBPX *Omni* Plus 3.5 VOC Acrylic Urethane Basecoat
(M799 Converter)

Reducer

MR295 Medium 65 - 75°F (18-24°C)
MR296 Slow 75 - 85°F (24-29°C)
MR297 Retarder 85 - 95°F (29-35°C)

Compatible Products

Can be applied over:

Cured, cleaned and sanded OEM and refinish coatings.
MP871 2.1 VOC Epoxy Primer - Gray
MP831 2.1 VOC 1K Primer Surfacer - Gray
MP80x 2.1 VOC Multi-Purpose Primers
MP89x 2.1 VOC Urethane Sealers

Can be topcoated with:

MC730 2.1 VOC Production Clear
MC2980 2.1 VOC EuroPlus® Clear

Preparation

Surface Cleaning:

SXA330 Wax and Grease Remover
SWX350 (H₂O-SO-CLEAN®) Waterborne Pre-Cleaner
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



Standard:

MBPX	:	MR29X	
1	:	1	



* High Temp:

MBPX	:	MR297	:	MH238
1	:	1	:	5%

**Note: As an option for high temperature applications above 90°F, 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 and equal parts of M799 MBPX converter.



Additives:

When spraying white basecoat you must add 10% of the preferred clearcoat hardener to the unreduced color, or 5% to RTS color.
With all other colors, the hardener is optional.

Air Pressure and Gun Setup



HVLP:	8 - 10 psi at the air cap
Compliant:	29 - 40 psi at the gun
Gun Setup:	1.3 - 1.6 mm or equivalent

Note: For best overall results, refer to spraygun manufacturer's recommendations for inlet air pressures.

Application



Coats:	2 - 3 coats or until proper color is achieved
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Dry Times



Between Coats:	5 - 10 minutes at 70°F (21°C)
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Air Dry at 70°F (21°C):	Tape: 45 minutes
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Clear:	30 minutes minimum 24 hours maximum at 70°F (21°C) to clearcoat
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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 mils

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

RTS Combinations:	MBPX (Package)	MBPX : MR29x	MBPX : MR297 : MH238
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
Solids wt. %	25.3 - 48.7	10.2 - 24.1	13.6 - 26.7
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 of 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

See Safety Data Sheet and Labels for additional safety information and handling instructions.

Data Safety Sheets for the PPG products mentioned in this publication are available through your PPG *Omni* brand 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* brand distributor or visit www.ppgrefinish.com for the most up-to-date information.

