

## VIBRANCE COLLECTION® Custom Midcoat

# VWM500

VWM500 Custom Midcoat is a solventborne product specifically designed to create custom candy or pearl midcoat layers over waterborne basecoat. VWM500 allows painters to create multiple color layers over waterborne basecoat using VIBRANCE COLLECTION® special effect pigments and dyes as well as isolate graphics, especially when the custom finish may be performed over an extended period of time.

VWM500 is fast drying, easy to apply, and is an essential tool for having full range, VOC-compliant capability in creating show-stopping, eye-catching custom finishes.

For durability and appearance, VWM500 must be clearcoated with a refinish top coat clear. This product is not intended for use as a stand alone clear coat.

For procedures relating to custom and/or restoration work refer to PPG's Custom Restoration Guide available at [ppgrefinish.com](http://ppgrefinish.com) under Training.



## Compatible Products and Systems

**VWM500** can be used over the following systems:

- ENVIROBASE® High Performance Refinish System - Follow EB-143 *Envirobase* High Performance recommendations for proper preparation and compatible primers.
- AQUABASE® Plus - Follow *Aquabase* Plus PDS N5.3.2 recommendations for proper preparation and compatible undercoats.
- *Vibrance Collection* topcoat systems - Follow specific product bulletin recommendations for proper preparation and compatible undercoats.

Note: Custom or exotic finishes are excluded from coverage under the PPG Paint Performance Guarantee.

### Required Products

DT1855	Compliant Reducer - Slow
DX57	Basecoat Activator
D8767	Slow Compliant Thinner
D888	Basecoat Activator
SLV898	Low VOC Retarder
DCH3610	Low Temp Hardener LV
VH7780	DITZLER® Custom Clear Hardener

### Compatible *Vibrance Collection* Products

RADIANCE® II Dyes
CRYSTALLANCE™
HARLEQUIN®
LUMINESCENCE® II
<i>Ditzler</i> BIG FLAKE™
FLAMBOYANCE®
PRIZMATIQUE®
CRYSTAL PEARL®
STARFIRE™

**VWM500****Surface Preparation:**

- When working on custom finishes, pay close attention to details, outlines for standard basecoat preparation, sanding, and cleaning is needed to achieve the optimum results.
- PPG color coats are designed to be applied over properly cleaned, sanded and primed surfaces. See the Compatible Surfaces section of the Product Information Bulletin EB143 (*Envirobase* High Performance basecoat) or PDS RM2851W (*Aquabase* Plus basecoat) for appropriate primer or sealer recommendations
- When applying a color coat, make sure the waterborne ground coat has sufficiently flashed to a uniform matt appearance as per the product information bulletin.

**Mixing Ratio:**

Tinted* VWM500	:	DT18xx/D87xx/SLV898 Reducer	:	DX57 / D888/ DCH3610/VH7780 Hardener
1	:	1	:	5% by vol. to RTS mix



**Pot Life:** 2 hours at 70°F (21°C)

\*See additives section for recommended tints and levels

**Additives:**

For optimal application, appearance and VOC compliance, use the following recommendations for addition of special effect pigments:

PRL / PRLX / VM	Dry Powders/Micas:	up to 12% by weight to VWM500 (before reduction)
VM	Liquid Micas:	up to 14% by weight to VWM500 (before reduction)
DMX Radiance II	Liquid Dyes:	up to 10% by weight to VWM500 (before reduction)

**Note:**

- 1.) Thoroughly stir prior to reducing.
- 2.) If storing tinted VWM500 unreduced & uncatalyzed, use PAINTMANAGER® Custom Formula workflow to generate a VWB-5 label with package VOC information.
- 3.) If not using a single tint option but instead using a combination of effect pigments in a single VWM500 layer, the following maximum weight ratios are recommended for optimum appearance, application and VOC compliance:

Weight % combinations w/ VWM500**		
Dry Tints	Liquid Tints	Dyes
Up to 12%	Up to 3%	Up to 8%
Up to 12%	Up to 8%	Up to 5%
Up to 12%	Up to 10%	Up to 3%
Up to 12%	Up to 13%	Up to 1%
Up to 12%	Up to 14%	No dye

\*\* Maximum combined levels ONLY if fully Dry Tint is utilized. If less dry tint added, reduce dye addition by 1%

**Air Pressure  
And Gun Set up:**

HVLP:	10 psi at the air cap
Compliant:	29 - 40 psi at the gun
Gun Setup:	1.1 - 1.5 mm or equivalent***

\*\*\*Smaller fluid tip is most effective when spraying *Radiance* II dyes and *Crystal Pearl* midcoat.

**Application:**

**Apply:** Apply 2 - 4 medium wet coats until desired color or effect is achieved.

**Tip:** When applying *Radiance* II dye containing VWM500, ensure good spray techniques are utilized, such as walking the car, no panel to panel spraying, 75% overlap and properly adjusted spray gun pattern and atomization. It is also recommended to spray a test panel of larger surface area prior to spraying actual job.

**Dry Film Build Per Coat:** 0.3 - 0.5 mils

**Caution:** In all cases avoid high film build of basecoats.

**VWM500****Drying Times**

**Between Coats:** 5 - 10 minutes at 70°F (21°C)

**Air Dry:**

**Dust Free:** 5 - 10 minutes at 70°F (21°C)

**Tape Time:**

**1 Coat:** 15 - 30 minutes at 70°F (21°C)

**2 Coats:** 45 - 60 minutes at 70°F (21°C)



**Dry To Clearcoat:** 15 - 30 minutes at 70°F (21°C)

**Note:** Surface should feel dry to touch before clear coating with appropriate PPG clear. Applying clearcoat prior to recommended dry time can result in distortion of the effect pigment appearance.

After 48 hours, midcoat must be sanded with P600 grit or gray scuff pad before clearcoat.



**VWM500 can be cleaned with waterborne or solventborne wax and grease removers.**

**Force Dry:**

N/A

**Recoat:**

- With VWM500 or compatible clearcoat - up to 48 hours without sanding. After 48 hours sand with 600 grit or gray scuff pad.
- With waterborne basecoat - up to 24 hours without sanding. After 24 hours, sand with 600 grit or gray scuff pad.

**Compatible Clearcoats:**

VWM500 must be clearcoated with any compatible *Vibrance Collection*, *Envirobase* High Performance or *Aquabase* Plus clearcoat

**Equipment Cleaning:**

Spray guns, gun cups, storage pots, etc., should be cleaned thoroughly after each use with any appropriate PPG general purpose solvent.

## VWM500

## Technical Data:

RTS Combinations	With 12% PRL/PRLX/VM Dry Tints VWM500 : DT18xx/D87xx/SLV898 + DX57/D888/DCH3610/ VH7780	With 14% VM Liquid Tints VWM500 : DT18xx/D87xx/ SLV898 + DX57/D888/DCH3610/ VH7780	With 10% DMX Liquid Tints VWM500 : DT18xx/D87xx/SLV898 + DX57/D888/DCH3610/ VH7780
Volume Ratio:	1 : 1 + 5% on RTS	1 : 1 + 5% on RTS	1 : 1 + 5% on RTS
Applicable Use Category	Color Coating	Color Coating	Color Coating
VOC Actual (g/L)	60 - 71	102 - 116	96 - 107
VOC Actual (lbs./gal.)	0.50 - 0.59	0.85 - 0.97	0.80 - 0.89
VOC Regulatory (g/L) (less water, less exempt)	240 - 303	397 - 419	392 - 420
VOC Regulatory (lbs./gal.) (less water, less exempt)	2.00 - 2.53	3.31 - 3.50	3.27 - 3.50
Density (g/L)	1124 - 1298	1095 - 1234	1092 - 1238
Density (lbs./gal.)	9.38 - 10.83	9.14 - 10.30	9.12 - 10.32
Volatiles wt. %	80.3 - 84.1	85.7 - 87.5	85.6 - 88.5
Water wt. %	0.0 - 0.1	0.0 - 0.1	0.0 - 0.1
Exempt wt. %	74.7 - 78.2	72.0 - 78.8	76.1 - 78.9
Water vol. %	0.0 - 0.1	0.0 - 0.1	0.0 - 0.1
Exempt vol. %	74.6 - 76.2	72.0 - 74.2	73.3 - 74.1
Solids wt. %	15.9 - 19.7	12.5 - 13.3	11.5 - 14.4
Solids vol. %	14.1 - 17.8	13.5 - 14.3	12.4 - 13.9
Sq. Ft. Coverage / US gal. (1 mil. At 100% transfer efficiency)	226 - 285	216 - 229	199 - 223
Note: If combining effect pigments in single VWM500 layer, dry powder/micas can be mixed with liquid micas or liquid dyes at the allowed maximum levels wt.% levels listed in the Additives section of this document found on page 2			

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

**Important:** The contents of this package must 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. Improper spray technique may result in a hazardous condition. Follow spray equipment manufacturer's instructions to prevent personal injury or fire. Follow directions for respirator use. Wear eye and skin protection. Observe all applicable precautions.

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

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