



VB-22NR

VIBRANCE COLLECTION® Custom Midcoat (National Rule)

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 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 clearcoat.

For procedures relating to custom and/or restoration work refer to PPG's Custom Restoration Guide available at 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

DT885	Warm Temperature Reducer 75-90°F (24-32°C)
DT895	Hot Temperature Reducer 85°F (29°C) and above
DT898	Hot Temperature Reducer 95°F (35°C) and above
DX57	Basecoat Activator
D871	Medium Thinner 60-65°F (16-18°C)
D872	Slow Thinner 65-77°F (18-25°C)
D873	Very Slow Thinner 77-95°F (25-35°C)
D888	Basecoat Activator
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	:	DT8xx/D87x Reducer	:	DX57/D888/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 and appearance, 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:

- Thoroughly stir prior to reducing
- If storing tinted VWM500 unreduced & uncatalyzed, use PAINTMANAGER® Custom Formula workflow to generate a VWB-5 label.
- 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 and application:

Weight % combinations w/ VWM500		
Dry Tints	Liquid Tints	Dyes
Up to 12%	Up to 3%	Up to 10%
Up to 12%	Up to 8%	Up to 7%
Up to 12%	Up to 10%	Up to 5%
Up to 12%	Up to 13%	Up to 3%
Up to 12%	Up to 14%	No dye

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, *Aquabase* Plus, DELTRON®, or GLOABAL REFINISH SYSTEM® clearcoat

Equipment Cleaning:

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

Technical Data:

RTS Combinations	With 12% PRL / PRLX / VM Dry Tints VWM500 : DT8xx/D87x + DX57/ D888/VH7780	With 14% VM Liquid Tints VWM500 : DT8xx/D87x + DX57/ D888/VH7780	With 10% DMX Liquid Tints VWM500 : DT8xx/D87x + DX57/ D888/VH7780
Volume Ratio:	1 : 1 + 5% on RTS	1 : 1 + 5% on RTS	1 : 1 + 5% on RTS
Coating Category	Multi- Stage Ctg. (Midcoat)	Multi- Stage Ctg. (Midcoat)	Multi- Stage Ctg. (Midcoat)
VOC Actual (g/L)	477 - 489	508 - 528	497 - 522
VOC Actual (lbs./gal.)	3.98 - 4.08	4.24 - 4.41	4.15 - 4.36
VOC Regulatory (g/L) (less water, less exempt)	649 - 679	685 - 702	683 - 705
VOC Regulatory (lbs./gal.) (less water, less exempt)	5.42 - 5.67	5.72 - 5.86	5.70 - 5.88
Solids wt. %	19.7 - 22.3	15.2 - 17.1	14.3 - 16.3
Solids vol. %	14.1 - 17.8	13.1 - 14.3	12.4 - 13.9
Sq. Ft. Coverage / US gal. (1 mil. At 100% transfer efficiency)	226 - 286	210 - 229	199 - 224
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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