

VIBRANCE COLLECTION® Waterborne Midcoat

VWM5556

VWM5556 is an innovative waterborne midcoat for use with ENVIROBASE® High Performance and AQUABASE® Plus waterborne basecoats. VWM5556 creates a midcoat layer that can be applied over the waterborne basecoat and allows isolation of graphics when doing multiple colors especially when the custom finish may be done over an extend period of time. VWM5556 may also be tinted with *Envirobase* High Performance or *Aquabase* Plus toners, *Vibrance Collection* powdered pearl or specialty flakes to create custom candy or pearl midcoat colors. VWM5556 may also be utilized as a blending clear or wet bed clear for the waterborne basecoat systems.

For durability and appearance, VWM5556 must be clearcoated with a refinish top coat clear. This product is not intended for use as a stand alone clear top coat.

VWM5556 is easy to use, and an essential tool for having full range, VOC-compliant capability in creating show-stopping, eye-catching custom finishes.

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

VWM5556 can be used with the systems shown below:

- *Envirobase* High Performance Refinish System - Follow EB-143 *Envirobase* High Performance recommendations for proper preparation and compatible undercoats and topcoats.
- *Aquabase* Plus Refinish System - Follow PDS N5.3.2 recommendations for proper preparation and compatible undercoats and topcoats.

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

Directions For Use

Surface Preparation:

- When working on custom finishes pay close attention to the details outlined for standard basecoat preparation, sanding, and cleaning is needed to achieve the optimum results.
- When applying a color coat, make sure the ground coat has sufficiently flashed.
- PPG color coats are designed to be applied over properly cleaned, sanded and primed surfaces. See the Compatible list in EB143 (EHP) or PDS N5.3.2 (*Aquabase* Plus) for an appropriate primer or sealer recommendation.

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Mixing Ratio:

**Envirobase High Performance***

VWM5556	:	T494/T595**
4	:	1

Aquabase Plus*

VWM5556	:	P980-5000/5085**
4	:	1

Converted /Activated

Converted VWM5556 will allow better protection of color coats and art work. It dries to a harder finish than the standard 4 : 1 reduction and once cured it will be easier to sand and may also be cleaned with waterborne or solvent based cleaner with no adverse affects.

VWM5556	:	T510	:	T581	:	T494 / T595*
70	:	30	:	15	:	20

*See table on page 6 for more converted, mix by weight ratios

**T595 / P980-5085 thinners should only be used when temperatures are 100°F (38°C) or hotter with humidity below 30%.



Pot Life: 90 days with standard 4 : 1 Ratio
1 hour with converted Ratio
4 hours with Powdered Tints

Additives:



Custom Mixing VWM5556 with *Vibrance Collection* Powdered Tints
Refer to specific *Vibrance Collection* P-Sheet

VWM5556 can be mixed with *Vibrance Collection* powdered tints. Refer to specific *Vibrance Collection* P-Sheet for mixing recommendations.

Note: Do Not Use with RADIANCE® II

Air Pressure
And Gun Setup:

HVLP:	10 psi at the air cap
Conventional:	45 - 55 psi at the gun
Gun Setup:	1.2 - 1.4 mm or equivalent

Refer to spraygun manufacturer's recommendations for inlet air pressures.

Application:



Apply:
As a midcoat: Apply 2 - 4 medium wet coats until desired color or effect is achieved. Be sure to dry completely between coats using hand held air driers or other waterborne basecoat drying methods.

As a blending clear: Apply 1 coat to the blend area prior to basecoat application and/or intermix RTS VWM5556 1 : 1 with the basecoat prior to blending.

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

Dried Film Build Per Coat: 0.7 - 1.0 mils

Drying Times



Between Coats: 2-5 minutes at 70°F (21°C) or until a uniform dull appearance is achieved.

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Drying Times:
Cont'd



Dust Free:

Standard: 2-5 minutes at 70°F (21°C) or until a uniform dull appearance is achieved.



Tape Time:

Standard: 15 minutes at 70°F (21°C)
Converted: 2 hours air dry at 70°F (21°C)
 20 minutes bake at 140°F (60°C)



Dry To Clearcoat:

Standard: 30 minutes at 70°F (21°C)
Converted: 60 minutes at 70°F (21°C)
 Depending on number of coats

After 48 hours, the midcoat must be lightly abraded and an additional coat of VWM5556 must be applied before clearcoating.

Repair and Recoat:

Standard: Light dry de-nibbing can be carried out after approximately 15 minutes air dry at 70°F (21°C). For cut through repairs allow to air dry 16 hours or overnight at 70°F (21°C)

Converted: Light dry de-nibbing can be carried out after approximately 2 hours air dry at 70°F (21°C). For cut through repairs allow to air dry 16 hours or overnight at 70°F (21°C).

Note: All force dry times are quoted for metal temperature. Additional time must be allowed during force dry to allow metal to reach recommended temperature.

Clear Coating:

VWM5556 colors must be clearcoated with a compatible *Vibrance Collection*, *Envirobase High Performance*, *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.

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Technical Data:				
EHP RTS Combinations	VWM5556 : T494/T595	VWM5556 Tinted* : T494/T595	VWM5556 : T510 : T581 : T494/T595	VWM5556 Tinted* : T510 : T581 : T494/T595
Volume Ratio:	4 : 1	4 : 1	70 : 30 : 15 : 20	70 : 30 : 15 : 20
Applicable Use Category	Color Coating	Color Coating	Color Coating	Color Coating
VOC Actual (g/L)	41	41-46	87	87-91
VOC Actual (lbs./gal.)	0.34	0.34-0.38	0.73	0.73-0.76
VOC Regulatory (g/L) (less water, less exempt)	212-241	212-260	280-296	280-303
VOC Regulatory (lbs./gal.) (less water, less exempt)	1.77-2.01	1.77-2.17	2.34-2.47	2.34-2.53
Density (g/L)	997	997-1002	1004-1005	1004-1008
Density (lbs./gal.)	8.32	8.32-8.36	8.38-8.39	8.38-8.41
Volatiles wt. %	85.2-87.4	84.7-87.4	77.1-78.7	76.8-78.7
Water wt. %	81.1-83.3	80.2-83.3	68.4-70.0	67.8-70.0
Exempt wt. %	0.0	0.0	0.0	0.0
Water vol. %	81.1-83.2	80.4-82.6	68.9-70.5	68.5-70.5
Exempt vol. %	0.0	0.0	0.0	0.0
Solids, vol. %	12.3-14.5	12.3-14.5	19.8-21.4	19.8-21.4
Solids, wt. %	12.6-14.8	12.6-15.3	21.3-22.9	21.3-23.2
Sq. Ft. Coverage / US gal. (1 mil. At 100% transfer efficiency)	197-233	197-233	317-343	317-343
*VWM5556 Tinted represents premixed blend of VWM5556 and colorant, containing a maximum amount of EHP T4xx / T4xxx pearlescent toner level of 15%				

VWM5556**Technical Data Cont'd:**

ABP RTS Combinations	VWM5556 : P980-5000/5085	VWM5556 Tinted* : P980-5000/5085	VWM5556 : P935-1135 : P210-9120 : P980-5000/5085	VWM5556 Tinted* : P935-1135 : P210-9120 : P980-5000/5085
Volume Ratio:	4 : 1	4 : 1	70 : 30 : 15 : 20	70 : 30 : 15 : 20
Applicable Use Category	Color Coating	Color Coating	Color Coating	Color Coating
VOC Actual (g/L)	41	41-46	87	87-91
VOC Actual (lbs./gal.)	0.34	0.34-0.38	0.73	0.73-0.76
VOC Regulatory (g/L) (less water, less exempt)	212-241	212-260	280-296	280-303
VOC Regulatory (lbs./gal.) (less water, less exempt)	1.77-2.01	1.77-2.17	2.34-2.47	2.34-2.53
Density (g/L)	997	997-1002	1004-1005	1004-1008
Density (lbs./gal.)	8.32	8.32-8.36	8.38-8.39	8.38-8.41
Volatiles wt. %	85.2-87.4	84.7-87.4	77.1-78.7	76.8-78.7
Water wt. %	81.1-83.3	80.2-83.3	68.4-70.0	67.8-70.0
Exempt wt. %	0.0	0.0	0.0	0.0
Water vol. %	81.1-83.2	80.4-82.6	68.9-70.5	68.5-70.5
Exempt vol. %	0.0	0.0	0.0	0.0
Solids, vol. %	12.3-14.5	12.3-14.5	19.8-21.4	19.8-21.4
Solids, wt. %	12.6-14.8	12.6-15.3	21.3-22.9	21.3-23.2
Sq. Ft. Coverage / US gal. (1 mil. At 100% transfer efficiency)	197-233	197-233	317-343	317-343
*VWM5556 Tinted represents premixed blend of VWM5556 and colorant, containing a maximum amount of ABP P999 / T4xxx pearlescent toner level of 15%				

Un-activated Mixing on the Scale:

Use the table below to mix VWM5556 un-converted, un-activated cumulative in parts.
If tinting, add tint to VWM5556 before thinning.

Product	Ratio	4 oz.	8 oz.	12 oz.	16 oz.	22 oz.	26 oz.
Envirobase High Performance							
VWM5556*	4	107	214	321	428	535	642
T494/595	1	134	267	401	535	668	802
Aquabase Plus							
VWM5556*	4	107	214	321	428	535	642
P980-5000/5085	1	134	267	401	535	668	802

*VWM5556 Tinted represents premixed blend of VWM5556 and colorant, containing a maximum amount of ABP P999 / T4xxx pearlescent toner level of 15%

VWM5556**Converted / Activated Mixing on the Scale:**

Use the table below to mix VWM5556 as a converted color with the addition of the appropriate *Envirobase* High Performance or *Aquabase* Plus components listed. If tinting, add tint to VWM5556 before converting, activating and thinning. For mixing accuracy, these ratios should be mixed on a scale by weight, cumulative in parts.

Product	Ratio	4 oz.	8 oz.	12 oz.	16 oz.	22 oz.	26 oz.
<i>Envirobase</i> High Performance							
VWM5556*	70	70	140	210	280	350	420
T510	30	100	200	300	400	500	600
T581	15	115	230	345	460	575	690
T494/595	20	135	270	405	540	675	810
<i>Aquabase</i> Plus							
Product	Ratio	4 oz.	8 oz.	12 oz.	16 oz.	22 oz.	26 oz.
VWM5556*	70	70	140	210	280	350	420
P935-1135	30	100	200	300	400	500	600
P210-9120	15	115	230	345	460	575	690
P980-5000/5085	20	135	270	405	540	675	810

*VWM5556 Tinted represents premixed blend of VWM5556 and colorant, containing a maximum amount of ABP P999 / T4xxx pearlescent toner level of 15%

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

Materials described are designed for application by professional, trained personnel using proper equipment and are not intended for sale to the public. Products mentioned may be hazardous and should only be used according to direction, while observing precautions and warning statements listed on label. Statements and methods described are based upon the best information and practices known to PPG Industries. Procedures for applications mentioned are suggestions only and are not to be construed as representations or warranties as to performance, results, or fitness for any intended use, nor does PPG Industries warrant freedom from patent infringement in the use of any formula or process set forth herein.

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