



VB-15

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 extended period of time. VWM5556 may also be tinted with Envirobase® High Performance or Aquabase® Plus toners, Vibrance 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.



Compatible Surfaces

VWM5556 can be used with the systems shown below:

- EHP *Envirobase*® High Performance – Follow Envirobase High Performance EB143 recommendations for proper preparation and compatible undercoats and topcoats
- Aquabase® Plus – Follow Aquabase Plus PDS N5.3.2 recommendation for proper preparation and compatible undercoats and topcoats.

VWM5556

Directions For Use

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, be sure the ground coat has sufficiently flashed.

PPG color coats are designed to be applied over properly cleaned, sanded and primed surfaces. See the Compatibility list in EB143 (EHP) or PDS N5.3.2 (Aquabase Plus) for an appropriate primer or sealer recommendation.

Mixing Ratio:



Envirobase High Performance*

Standard

VWM5556 : **T494 / T595****
4 : 1

Aquabase Plus*

Standard

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

Converted

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

* See table on page 4 for converted , mix by weight.

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

Apply 2 - 4 medium coats until desired appearance is achieved. Be sure to dry completely between coats using hand held air driers or other waterborne basecoat drying methods.

For use 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 builds.



Pot life:	With 4 :1 Ratio	90 days
	With 70:30:15:20 Ratio:	1 hour
	With Powdered Tints:	4 hours

Additives:



Custom Mixing VWM5556	VM414x Flamboyance	5%* max.shelf life 4 hours
with Vibrance Powdered	VM410x Liquid Crystal	5%* max.shelf life 4 hours
Tints	DX78 Prizmatique	2%* max.shelf life 4 hours

NOTE: Do Not Use with Radiance II or Ditzler Big Flake
*Percentage by weight

Spraygun Set-up:



Fluid Tip:	1.2 - 1.4 mm or equivalent
HVLP	10 psi at the air cap
Conventional	45 - 55 psi at the gun
Film Build Per Wet Coat:	1.0 - 1.5 mils
Film Build Per Dried Coat:	.7 - 1.0 mils

Drying Times:



Between Coats: 70°F (21°C)	2 - 5 minutes or until a uniform dull appearance is achieved
Dust Free: 70°F (21°C)	2 - 5 minutes or until a uniform dull appearance is achieved
Tack Free (4 : 1): 70°F (21°C)	15 minutes
Tack Free:(Converted): 70°F (21°C)	15 - 30 minutes
Tape Time (4 : 1): 70°F (21°C)	15 minutes
Tape Time (Converted): 70°F (21°C)	2 hours or bake for 20 minutes @ 140°F (60°C) metal temperature
Air Dry Time to Clearcoat: 70°F (21°C)	30 minutes or 60 minutes for converted at 70°F (21°C) depending on number of coats. After 48 hours, the midcoat must be lightly abraded and an additional coat must be applied.



Repair and Recoat (4 : 1): 70°F (21°C)	Force dry @ 140°F (60°C) metal temp.and cooling cycle. Light dry de-nibbing can be carried out after approximately 15 minutes air dry @ 70°F (21°C). For cut through repairs, 16 hours or overnight @ 70°F (21°C).
Repair and Recoat (Converted): 70°F (21°C)	Force dry @ 140°F (60°C) metal temp.and cooling cycle. Light dry de-nibbing can be carried out after approximately 2 hours air dry @ 70°F (21°C). For cut through repairs, 16 hours or overnight @ 70°F (21°C).

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Directions For Use (Cont.)

Clear Coating:

VWM5556 colors must be clearcoated with a compatible Vibrance, Envirobase, Aquabase Plus, Deltron or Global clearcoat (see Envirobase High Performance EB-143 or Aquabase Plus PDS N5.3.2 for compatible clearcoats. Custom or exotic finishes are excluded from coverage under the PPG Paint Performance Guarantee.

Technical Data:

Film Build Per Wet Coat: 1.0 – 1.5 mils
Dried Film Build Per Coat: .7 – 1.0 mils

EHP RTS Combinations:

	VWM5556 : T494 or T595	VWM5556 Tinted* : T494 or T595	VWM5556 : T510 : T581 : T494 or T595	VWM5556 Tinted* :T510 : T581 : T494 or T595
Volume Ratio:	1 : 0.25	1 : 0.25	70 : 30 : 15 :20	70 : 30 : 15 :20
Applicable Use Category	Color Coating	Color Coating	Color Coating	Color Coating
VOC Actual (g/L)	43	43 - 49	89	89 - 93
VOC Actual (lbs/gal)	0.36	0.36 - 0.41	0.74	0.74 - 0.77
VOC Regulatory (less water less exempt) (g/L)	255	255 - 276	297	297 - 310
VOC Regulatory (less water less exempt) (lbs/gal)	2.13	2.13 - 2.30	2.48	2.48 - 2.58
Density (g/L)	997	996 - 1026	1004	1004 - 1023
Density (lbs/gal)	8.32	8.31 - 8.55	8.38	8.38 - 8.54
Volatiles wt. %	87.6	83.7 - 87.8	78.8	76.5 - 78.9
Water wt. %	83.3	79.0 - 83.3	70.0	67.5 - 70.0
Exempt wt. %	0.0	0.0	0.0	0.0
Water vol. %	83.2	81.1 - 83.2	70.5	69.2 - 70.5
Exempt vol. %	0.0	0.0	0.0	0.0
Sq Ft. Coverage / U.S.gal.(1 mil. @ 100% transfer efficiency)	195	193 - 218	316	316 - 335

* VWM5556 Tinted represents premixed blend of VWM5556 and colorant, containing a maximum amount of EHP T4xx / T4XXX pearlescent toner level of 15%.

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:	1 : 0.25	1 : 0.25	70 : 30 : 15 :20	70 : 30 : 15 :20
Applicable Use Category	Color Coating	Color Coating	Color Coating	Color Coating
VOC Actual (g/L)	43	43 - 49	89	89 - 93
VOC Actual (lbs/gal)	0.36	0.36 - 0.41	0.74	0.74 - 0.77
VOC Regulatory (less water less exempt) (g/L)	255	255 - 276	297	297 - 310
VOC Regulatory (less water less exempt) (lbs/gal)	2.13	2.13 - 2.30	2.48	2.48 - 2.58
Density (g/L)	997	996 - 1026	1004	1004 - 1023
Density (lbs/gal)	8.32	8.31 - 8.55	8.38	8.38 - 8.54
Volatiles wt. %	87.6	83.7 - 87.8	78.8	76.5 - 78.9
Water wt. %	83.3	79.0 - 83.3	70.0	67.5 - 70.0
Exempt wt. %	0.0	0.0	0.0	0.0
Water vol. %	83.2	81.1 - 83.2	70.5	69.2 - 70.5
Exempt vol. %	0.0	0.0	0.0	0.0
Sq Ft. Coverage / U.S.gal.(1 mil. @ 100% transfer efficiency)	195	193 - 218	316	316 - 335

* VWM5556 Tinted represents premixed blend of VWM5556 and colorant, containing a maximum amount of ABP P999 / T4XXX pearlescent toner level of 15%.

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Directions For Use (Cont.)

Un-activated mixing on a Scale:

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

Product	4 oz.	8 oz.	12 oz.	16 oz.	20 oz.	24 oz.
Envirobase High Performance						
VWM5556*	107	214	321	428	535	642
T494/595	134	267	401	535	668	802
Aquabase Plus						
VWM5556*	107	214	321	428	535	642
P980-5000/5085	134	267	401	535	668	802

Converted / activated mixing on the scale:

Use the table below to mix VWM5556 as a converted color with the addition of the appropriate Envirobase 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		4 oz.	8 oz.	12 oz.	16 oz.	20 oz.	24 oz.
Envirobase High Performance							
VWM5556*	70 parts	70	140	210	280	350	420
T510	30 parts	100	200	300	400	500	600
T581	15 parts	115	230	345	460	575	690
T494/595	20 parts	135	270	405	540	675	810
Aquabase Plus							
VWM5556*	70 parts	70	140	210	280	350	420
P935-1135	30 parts	100	200	300	400	500	600
P210-9120	15 parts	115	230	345	460	575	690
P980-5000/5085	20 parts	135	270	405	540	675	810

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

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 directions, 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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