



VB-19

CRYSTALLANCE™ Glass Flake Collection

VM4501 Silver*

VM4502 Sapphire

VM4503 Jade

VM4504 Garnet

VM4505 Topaz

VM4506 Opal

The CRYSTALLANCE™ glass flake collection contains six unique pigments that create bright finishes with intense sparkle and flare.

The brilliant effect of these pigments is very evident in sunlight, and is ideal for jobs where an intense, dazzling shimmer is desired.

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

Crystallance glass flakes can be used in conjunction with the systems and products shown below:

- DELTRON® DBC 2000 Refinish System - Follow P-175 *Deltron* DBC recommendation for proper preparation and compatible primers.
- GLOBAL REFINISH SYSTEM® BC Refinish System - Follow EU02 *Global Refinish System* BC recommendation for proper preparation and compatible primers.
- ENVIROBASE® High Performance Refinish System - Follow EB-143 *Envirobase* High Performance recommendations for proper preparation and compatible primers.
- AQUABASE® Plus Refinish System - Follow PDS N5.3.2 recommendations for proper preparation and compatible primers.
- DBC500 Color Blender - Follow P-176 *Deltron* DBC500 recommendations for proper preparation and compatible primers.
- D895 Color Blender - Follow EU113 *Global Refinish System* BC recommendations for proper preparation and compatible primers.
- VWM5556 VIBRANCE COLLECTION® Waterborne Midcoat - Follow VB-15 recommendations for proper preparation and use.
- VWM500 *Vibrance Collection* Custom Midcoat - Follow VB-22 recommendations for proper preparation and use.

***Note: VM4501 Silver should ONLY be used in 2 component urethane clearcoats.**

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 close attention to the details outlined for standard basecoat preparation, sanding, and cleaning is needed to achieve the optimum results.
- *Crystallance* glass flake colors are designed to be applied over properly cleaned, sanded, and primed surfaces.

VM450x**Mixing Ratio:**

(adding VM450x to a
basecoat color or
blender)



For a custom formulation you may add a maximum of 5% (by weight) *Crystallance* glass flake to unreduced color or 2% (by weight) to ready-to-spray DBC, BC, EHP, ABP, DBC500, D895, VWM5556, or VWM500. ***Note: VM4501 Silver should ONLY be used in 2 component urethane clearcoats.**

Reducing:

(basecoat color or
blender already
containing VM450x)

**Reduction of basecoat color or blender already containing VM450x**

For detailed *Deltron* DBC 2000 reduction specifics see data sheet P-175**

For detailed *Global Refinish System* BC reduction specifics see data sheet EU02**

For detailed *Envirobase* High Performance EHP reduction specifics see data sheet EB-143

For detailed *Aquabase* Plus ABP reduction specifics see data sheet PDS N5.3.2

For detailed DBC500 reduction specifics see data sheet P176**

For detailed D895 reduction specifics see data sheet EU113**

For detailed VWM5556 reduction specifics see data sheet VB-15

For detailed VWM500 reduction specifics see data sheet VB-22

DX57 or D888 activator **must be used in DBC or BC colors containing *Crystallance*.

When using *Crystallance* tri-coat custom colors, DX57 or D888 activator **must** be used in both the ground coat and midcoat colors.

**Pot Life:**

See specific product data sheet listed above

Using activated material beyond 1 hour may result in wrinkling or other product failures (especially on multiple colors).

Additives:

See specific product data sheet listed above

Air Pressure**And Gun Setup:**

HVLP: 8 - 10 psi at the air cap
Compliant: 29 - 40 psi at the gun
Gun Setup: 1.2 - 1.5 mm or equivalent

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

Application:

Apply: Sufficient number of coats to achieve desired effect.
Spraying a test panel is recommended to determine desired effect.

Drying Times

Between Coats: See specific product data sheet listed above



Air Dry: See specific product data sheet listed above



Dry to Clearcoat: See specific product data sheet listed above
24 hour maximum to clearcoat

Note: Basecoat colors are designed to dry low in gloss. This makes color match and its approval difficult to see until the clearcoat is applied. **A good technique is to spray the basecoat and clearcoat on a small test panel before spraying the job.**

If the basecoat color is allowed to dry more than 24 hours, it must be scuffed and new basecoat color applied.

VM450x

Tri-Coat Mixing:	<p>When applying <i>Deltron</i> basecoat or <i>Global Refinish System</i> basecoat, 5% DX57 or D888 Basecoat Activator must be added to the reduced basecoat prior to spraying in BOTH the ground coat and mid-coat.</p> <p><i>Crystallance</i> pigments can be blended as a mid-coat color with DBC500, VWM5556 Waterborne Midcoat, VWM500 Custom Midcoat or D895 Color Blender. In doing so you achieve more transparency, when combined with varying ground coat colors and create different degrees of custom effects. *Note: VM4501 Silver should ONLY be used in 2 component urethane clearcoats.</p>
Striping or Two Toning	<p>Tape Times: Tape time of DBC and BC is 30 - 60 minutes at 70°F (21°C) and 50% relative humidity. Tape time of EHP, ABP and VWM5556 is 30 - 35 minutes at 70°F (21°C) and 50% relative humidity. Tape time of VWM500 is 45 - 60 minutes (additional coats may require longer dry time).</p> <p>All striping, two toning must be completed within 24 hours. If allowed to dry for more than 24 hours, it must be sanded and reapplied.</p> <p>When applying DBC or BC basecoats, 5% DX57 or D888 Basecoat Activator must be added to the reduced basecoat prior to spraying in BOTH the ground coat and mid coat.</p>
Clearcoating:	<p>Due to the large particle size of the <i>Crystallance</i> pigment, you must apply 2.5 - 3.0 mils of clear (usually 2 - 4 coats) to cover the basecoat.</p> <p>Clear with any <i>Vibrance Collection</i> clearcoat or any clearcoat recommended for <i>Deltron</i> DBC, <i>Global Refinish System</i> BC, <i>Envirobase</i> High Performance or <i>Aquabase</i> Plus</p>
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	<u>DBC</u>	<u>BC</u>	<u>EHP</u>	<u>ABP</u>
Package VOC Actual	4.72 - 6.16 lbs./gal (567 - 738 g/L)	4.89 - 6.08 lbs./gal (586 - 729 g/L)	0.35 - 1.00 lbs./gal (43 - 120 g/L)	0.35 - 1.00 lbs./gal (43 - 120 g/L)
Package VOC Regulatory (Less water, less exempts)	4.72 - 6.16 lbs./gal (567 - 738 g/L)	4.89 - 6.08 lbs./gal (586 - 729 g/L)	1.57 - 3.30 lbs./gal (188 - 395 g/L)	1.57 - 3.30 lbs./gal (188 - 395 g/L)
RTS Volume Ratio	1:1 + 5%	1:1 + 5%	1:10 - 30%	1:10 - 30%
RTS VOC Regulatory (Less water, less exempts)	5.43 - 6.20 lbs./gal (651 - 743 g/L)	5.47 - 6.20 lbs./gal (655 - 743 g/L)	1.70 - 3.50 lbs./gal (203 - 419 g/L)	1.70 - 3.50 lbs./gal (203 - 419 g/L)
	<u>DBC500</u>	<u>D895</u>	<u>VWM5556</u>	<u>VWM500</u>
Package VOC Actual	5.06 - 5.62 lbs./gal (607 - 673 g/L)	5.06 - 5.62 lbs./gal (607 - 673 g/L)	0.34 - 0.39 lbs./gal (40 - 46 g/L)	1.38 - 1.55 lbs./gal (166 - 189 g/L)
Package VOC Regulatory (Less water, less exempts)	5.06 - 5.62 lbs./gal (607 - 673 g/L)	5.06 - 5.62 lbs./gal (607 - 673 g/L)	1.47 - 1.69 lbs./gal (176 - 203 g/L)	3.20 - 3.66 lbs./gal (383 - 439 g/L)
RTS Volume Ratio	1:1 + 5%	1:1 + 5%	4:1	1:1 + 5%
RTS VOC Regulatory (Less water, less exempts)	5.80 - 6.49 lbs./gal (695 - 778 g/L)	5.77 - 6.26 lbs./gal (692 - 750 g/L)	2.03 - 2.30 lbs./gal (243 - 276 g/L)	5.42 - 5.88 lbs./gal (651 - 705 g/L)
For detailed DBC recommendations and VOC specifics see data sheet P-175 For detailed BC recommendations and VOC specifics see data sheet EU02 For detailed EHP recommendations and VOC specifics see data sheet EB-143 For detailed ABP recommendation and VOC specifics see data sheet PDS N5.3.2		For detailed DBC500 recommendations and VOC specifics see data sheet P176 For detailed D895 recommendations and VOC specifics see data sheet EU113 For detailed VWM5556 recommendations and VOC specifics see data sheet VB-15 For detailed VWM500 recommendations and VOC specifics see data sheet VB-22		

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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