

VB Basecoat

Product Data Sheet



PPG VELOCITY® VB Basecoat is a high-solids, high-hiding basecoat that is easy to use, delivers excellent coverage and dries quickly. This product offers high quality and productivity as well as durability. VB Basecoat is available with mixing scheme toners, multi-stage colors and pearls.

Compatible Products



Apply over:

- VP2X0 2K Urethane Primer Surfacer
- VS3X0 2K Urethane Primer Sealer
- DPLF Epoxy Primer (DP48LF, DP50LF, DP90LF)

Topcoat with:

- VC200 HS Clear
- VC300 HS Extra Clear
- VC400 Rapid Clear
- VC850/VC800 Matte/Semi-Gloss Clear System

Substrate Preparation



- Wash all surfaces to be painted with car wash soap and water to remove water soluble contaminants, then apply the appropriate PPG ONECHOICE® cleaner. Ensure that the substrate is thoroughly cleaned and dried both before and after application work.
- Abrade (wet) with U.S. 500–600 / European P800–P1200-grade paper or abrade (dry) with U.S. 400–500 / European P600–P800-grade paper.
- Wash off residue and dry thoroughly before re-cleaning with appropriate *OneChoice* cleaner. The use of a *OneChoice* tack rag is recommended.
- For plastic substrates, refer to product bulletin for *OneChoice* Plastic Adhesion Promoter.

Application Guide



Mix Ratio

VB Basecoat	1 part
VR Universal Thinner	1 part
VN300 Activator (Optional)	0.1 part

Thinners

VR151 Universal Fast Thinner	60-73° F (15-22° C)
VR152 Universal Normal Thinner	70-85° F (21-29° C)
VR153 Universal Slow Thinner	Above 83° F (28° C)

Additives

VN300 Activator	Increases durability when added to RTS (ready to spray) basecoat. VN300 must be used in VB to qualify for PPG warranty.
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Pot Life

- Unlimited if mixed 1:1 ratio
- 2 hours if activated with VN300 at 70° F (21° C)

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Application Guide (cont.)



Spray Gun Setup and Pressure

Fluid tip	1.3 – 1.4 mm
Viscosity at 70° F (21° C)	15-19 seconds with a DIN4
HVLP at the air cap	8 – 10 psi
Compliant at the spray gun	26 – 29 psi

For best overall results, refer to the spray gun manufacturer's recommendations for optimum inlet air pressures.



Application

- 2-3 medium wet coats or until proper color is achieved
- 0.4 mils suggested dry film build



Drying Times

Dust-free, air dry	20 minutes at 70° F (21° C)
Tape time, air dry	40 minutes at 70° F (21° C)
Dry to clear, air dry	20-30 minutes at 70° F (21° C)

See technical bulletin IRTB1 for information about infrared usgae and drying times.

Flash Off

Between coats, 5-10 minutes or until fully flashed off at 70° F (21° C)



Recoating

- After 24 hours, basecoat must be cleaned, abraded and recleaned before reapplying the basecoat.
- After 12 hours, basecoat with VN300 must be cleaned, abraded with a fine scuff pad and then recleaned before reapplying the basecoat.

Striping / Two-Toning

- If using VN300 all striping, two toning, and clear coating must be completed within 12 hours.
- If not using VN300, after 24 hours the VB basecoat must be abraded, and cleaned before reapplying basecoat color or clearcoat.
- Clearcoat only with VC200, VC300, VC400 or VC8X0 clears.

As a Wet Bed: VX656 Transparent Base mixed 1:1 with VR151/VR152/VR153 Thinner

- 1-2 light to medium coats applied from edge to edge over entire repair area allowing a 5-10 minute flash.
- VB basecoat may then be applied directly over the wet bed and blended as necessary.

As a Color Blender: Reduced VX656 mixed 1:1 with Reduced VB Basecoat

- 1-2 light to medium coats. Extend each coat a little further than the previous coat.
- If desired, more of the reduced VX656 may be added to the color mixture to further reduce the hiding for each blend step.

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Performance Guidelines

- The use of HVLP spray equipment can give an increase in transfer efficiency of around 25% depending upon the make and model of the equipment used.
- Store in a cool dry place away from heat.

Technical Data

RTS Information	VB : VR151/152/153 1:1	VB : VR151/152/153 : VN300 1:1:0.10
Coating category	Color Coating	Color Coating
VOC actual (g/L)	740 – 820 g/L	742 – 805 g/L
VOC actual (lbs./U.S. gal.)	6.18 – 6.85 lbs./gal.	6.19 – 6.72 lbs./gal.
VOC regulatory (g/L) (less water less exempt)	740 – 820 g/L	742 – 805 g/L
VOC regulatory (lbs./U.S. gal.) (less water less exempt)	6.18 – 6.92 lbs./gal.	6.19 – 6.72 lbs./gal.
Density (g/L)	915 – 1077 g/L	901 – 1077 g/L
Density (lbs./U.S. gal.)	7.64 – 8.99 lbs./gal.	7.59 – 8.93 lbs./gal.
Solids volume %	8.40 – 15.75%	10.43 – 16.90%
Solids weight %	11.86 – 30.09%	13.61 – 30.64%
Coverage at 1 mil at 100% transfer efficiency (sq. ft.)	128 – 253 sq. ft.	167 – 276 sq. ft.

Health and Safety

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

- The contents of this package may have to 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 and SDS of all the components, since the mixture will have the hazards of all its parts.
- Improper handling and use, for example, poor spray technique, inadequate engineering controls and/or lack of proper Personal Protective Equipment (PPE), may result in hazardous conditions or injury.
- Follow spray equipment manufacturer's instructions to prevent personal injury or fire.
- Provide adequate ventilation for health and fire hazard control.
- Follow company policy, product SDS and respirator manufacturer's recommendations for selection and proper use of respiratory protection. Be sure employees are adequately trained on the safe use of respirators per company and regulatory requirements.
- Store waterborne and solventborne waste separately. A competent agent with appropriate certification must handle all hazardous wastes. Wastes must be disposed in accordance with all federal, state, provincial and local laws and regulations.
- Wear appropriate PPE such as eye and skin protection. In the event of injury, see first aid procedures on SDS.
- Always observe all applicable precautions and follow good safety and hygiene practices.

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Health and Safety (cont.)

Emergency Medical or Spill Control Information: (412) 434-4515

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