

VP2X0 2K Urethane Primer Surfacer

VP200 White | VP210 Gray | VP220 Dark Gray

Product Data Sheet



PPG VELOCITY® VP2X0 2K Urethane Primer Surfacer delivers exceptional, easy-to-abrade, high-build performance on urethanes, plastics, gel-coated fiberglass and other metal substrates. Various shades of G1 – G7 gray can be achieved by combining VP200, VP210 and VP220 in different proportions, which may optimize topcoat consumption and the total repair process time. See *Shades of Gray* section for details.

Compatible Products



Apply over:

- Properly abraded e-coat
- Primed aluminum, steel and galvanized steel
- Gel-coated fiberglass
- Primed plastics
- VP900 Etch Primer
- OEM paintwork
- DPLF Epoxy Primer (DP48LF, DP50LF, DP90LF)

Topcoat with:

- VS3X0 2K Urethane Primer Sealer
- VB Basecoat

Substrate Preparation



- **All surfaces to be painted** should be cleaned with car wash soap and water, then apply the appropriate PPG ONECHOICE® cleaner. Ensure the substrate is thoroughly cleaned and dried both before and after preparation work.
- **Original paintwork** should be abraded using U.S. 240 / European P280-grade discs (dry) or U.S. 320 / European P360-grade paper (wet). Exposed bare metal should be spot-primed with a suitable bare metal primer such as *Velocity* VP900 Etch Primer or DPLF Epoxy Primer.
- **Electrodeposition primer** must be thoroughly cleaned and abraded as outlined above.
- **Aluminum, bare steel and galvanized steel** must be clean, rust free and abraded thoroughly using U.S. 80-180 / European P180-grade paper and primed with *Velocity* VP900 Etch Primer or DPLF Epoxy Primer after abrading.
- **Polyester body fillers** should be abraded (dry) with U.S. 180 / European P180-grade paper followed by U.S. 240 / European P280-grade paper.
- **Gel-coated fiberglass and SMC** should be dry abraded using U.S. 240 / European P280-grade paper.
- **Bare plastic** should be abraded with a gray scuff pad (use a finer grade for softer plastics) and primed with *OneChoice* Plastic Adhesion Promoter.

Application Guide



Mix Ratio

VP200/VP210/VP220 Urethane Primer Surfacer	4 parts
VH330 Undercoat Hardener	0.5 parts
VR25X Thinner	1 part

Hardeners

VH330 Undercoat Hardener

Thinners

VR251 Fast Thinner	Small repairs 60-80° F (15-26° C)
VR252 Medium Thinner	65-90° F (18-32° C)
VR253 Slow Thinner	77-95° F (25-35° C)
VR254 Very Slow Thinner	Above 90° (35° C)

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Application Guide (cont.)



Pot Life

1 hour at 70° F (21° C)



Spray Gun Setup and Pressure

Fluid tip	1.3 – 1.5 mm
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

- 2-4 medium wet coats
- 4.0 mils per wet coat
- 1.75 – 2.0 mils suggested dry film build
- 2.0 mils minimum after abrading
- 6.0 mils maximum after abrading



Drying Times

Dust-free, air dry	15 minutes at 70° F (21° C)
Dry to abrade, air dry	2 hours at 70° F (21° C)

Flash Off

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



Abrading

- Make sure primer surfacer is completely cool and hardened before abrading to avoid shrinkage.
- Should be abraded U.S. 320 / European P360-grade paper followed by U.S. 500 / European P1000-grade paper (dry) or U.S. 400 / European P800-grade paper followed by U.S. 600 / European P1200-grade paper (wet).

Topcoating

- Clean with PPG *OneChoice* cleaner before topcoating.
- For best performance, overcoat with primer sealer or use VN300 activator in VB Basecoat.

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Application Guide (cont.)



Shades of Gray

VC200 White, VP210 Gray and VP220 Dark Gray may be blended together to match various G1 – G7 shades of gray. The blends quoted below are percentages by weight.

% by Weight	G1	G3	G5	G6	G7
VP200 White	100	60	–	–	–
VP210 Gray	–	40	100	28.6	–
VP220 Dark Gray	–	–	–	71.4	100

Performance Guidelines

- The use of HVLSP spray equipment can give an increase in transfer efficiency of around 25% depending upon the make and model of the equipment used.
- When using a primer surfacer in a spot repair, adopt the following procedures:
 - Thoroughly abrade the surface to the edge of the panel or to a distance of 3" (7.6 cm) beyond the damaged area, whichever is smaller.
 - After applying the primer surfacer and allowing it to dry as recommended, thoroughly level the repair edge when abrading.
 - Do not attempt spot repair on original or refinish thermoplastic applications, lacquer or 1K finishes.
- Primer surfacer and its ancillaries are sensitive to moisture, so all equipment must be perfectly dry.
- Partially used cans of hardener must be carefully closed. Store all contents in a cool dry place away from heat.

Technical Data

RTS Information	VP20X : VH330 : VR25X 4 : 0.5 : 1
Coating category	Primer Surfacer
VOC actual (g/L)	550 – 554 g/L
VOC actual (lbs./U.S. gal.)	4.59 – 4.62 lbs./gal.
VOC regulatory (g/L) (less water less exempt)	550 – 554 g/L
VOC regulatory (lbs./U.S. gal.) (less water less exempt)	4.59 – 4.62 lbs./gal.
Density (g/L)	1284.7 – 1289.5 g/L
Density (lbs./U.S. gal.)	10.72 – 10.76 lbs./gal.
Volatiles weight %	44.3 – 44.4%
Water weight %	0.00%
Exempt weight %	0.00%
Water volume %	0.00%
Exempt volume %	0.00%
Solids volume %	35.50%
Solids weight %	57.20%
Coverage at 1 mil at 100% transfer efficiency (sq. ft.)	569 sq. ft.

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Product Data Sheet

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.

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

Materials described are designed for application by professional, trained personnel using proper equipment and are not intended for sale to the general 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, result, 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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