



Heavy Duty Protective Coatings

LU-Series V-Tech 600 Fast Dry Universal Primer



Technical Data

PRODUCT DESCRIPTION

A high solids, industrial grade universal primer for metal substrates. This product offers early recoatability and exhibits excellent corrosion resistance and adhesion over properly prepared steel, galvanized metal and various other metal substrates. Provides excellent gloss hold-out for a wide variety of topcoats. Lead and chromate free. VOC compliant.

INTENDED USES

Can be used as an interior-exterior, universal primer under high performance finish coatings. Ideal for industrial maintenance environments, as a barrier coat over sound, existing, conventional coatings. Designed as an all purpose maintenance primer for structural steel, steel storage tanks, machinery and equipment.

PHYSICAL PROPERTIES

Color	Gray LU-0500, White LU-1500, Red LU-5500
Finish/Sheen	0 - 5 @ 60°
Resin Type	Modified Alkyd
Reduction Solvent	Diamond Vogel N-3023 Xylol
Clean-up Solvent	Diamond Vogel N-3023 Xylol
Solids By Weight	70%
Solids by Volume	49%
Theoretical Coverage	786 ft ² /gal @ 1 mil
Dry Film Thickness / Coat	3 - 4 mils (75 - 100 microns)
Wet Film to Achieve DFT	6 - 8 mils (150 - 200 microns)
Coverage at DFT	197 - 262 ft ² /gal @ 3 - 4 mils DFT
VOC's	3.33 lbs./gal. (400 grams/liter) Activated
Thinning	DO NOT THIN

Drying Time (hours) At 70°F (21°C)

[ASTM D1640] - 83 Reapproved 1989

Set to Touch 10 to 20 minutes

Dry Through 1 to 1 ½ hours

* Dry times vary with surface temperature, air movement, humidity and film thickness.

RECOAT/TOPCOAT

Recoat Time*	Product	Minimum Recoat	Maximum Recoat
[At 70°F (21°C)]	V-Tech 600/V-Tech 600	1 to 1 ½ hours	2 months
	V-Tech 600/Pinnacle 330HS	1 to 1 ½ hours	2 months
	V-Tech 600/Pinnacle 460	1 to 1 ½ hours	2 months
	V-Tech 600/V-Cote 200	1 to 1 ½ hours	1 month
	V-Tech 600/V-Cote 222	1 to 1 ½ hours	2 months
	V-Tech 600/Cote-All	1 to 1 ½ hours	1 month

* Recoat times vary with surface temperature, air movement, humidity and film thickness.

PERFORMANCE

Performance criteria meet or exceed Master Painters Institute (MPI) # 76 & 95 approval standards.

RECOMMENDED TOPCOATS

V-Tech 600 Fast Dry Universal Primer
Pinnacle 330HS Polyurethane
Pinnacle 460 Polyurethane
V-Cote 200 Acrylic Maintenance Primer/Finishes (MC-Series)
V-Cote 222 Acrylic Maintenance Finishes (MC-Series)
Cote-All Enamel (AZ-Series)

SURFACE PREPARATION

All surfaces must be clean, sound and free of all dirt, dust, wax, oil, grease, chalk and any other contamination that would interfere with new coating adhesion. Bare surfaces must be properly prepared prior to application of this product.

New Ferrous Metal & Previously Painted Metal:

Power or hand washing is recommended to remove contamination. If oil or grease is present, use of a cleaner/degreaser is required. All cleaning residue must be completely rinsed from the surface. Allow to dry. Remove all loose coatings, rust and corrosion by scraping, sanding or other abrading method as per SSPC-SP-2 and SSPC-SP-3. For new steel and complete removal of the old coating, abrasive blast according to SSPC-SP-6 Commercial Blast. Use proper abrasive to achieve a 1.5 to 2 mil profile as per SSPC-SP-6. Blasted surfaces must be primed before flash rusting occurs.

New Galvanized & Aluminum Surfaces:

Solvent wipe to remove surface contamination, then use a cleaning & etching solution or blast per SSPC-SP-7 Brush-off Blast.

Weathered Galvanized & Aluminum Surfaces:

Power or hand wash with detergent and rinse thoroughly. The surface must be dull and have a profile; use a cleaning & etching solution if needed.

Mildew:

Remove by using a solution of one part household bleach and three parts water. Apply to mildewed area and scrub. Allow solution to remain on the surface for 3 to 5 minutes and then rinse completely and allow to dry before coating application.

APPLICATION

Stir material prior to application. Intermix tinted containers to ensure color uniformity of all material. Apply when air and surface temperatures are above 40° F (4° C) and at least 5° F (3° C) above the dew point. While this product is not subject to freezing, curing is affected by temperature, humidity and air movement; cold temperatures will greatly increase drying time. Application at elevated temperatures, wind conditions, and/or low humidity may require special application procedures to achieve proper film formation. Abrasive blasted steel with blast profile of 1.5 - 2.0 mils, should have a minimum of 3 - 4 mils DFT per coat. Two coats of primer are recommended to achieve uniform coverage and maximum protection.

Airless Spray:

Flush airless lines with Xylol. Equipment must be clean prior to start. Thinning is not normally required. Thin only as needed for workability. Apply a wet coat in even, parallel passes with 50 % overlap to avoid bare areas and pinholes. If required, crosshatch spray at right angles.

<i>Tip Orifice</i>	<i>Atomizing Pressure</i>	<i>Mat'l Hose ID</i>	<i>Manifold Filter</i>
0.013" to 0.015"	2500-3000 psi	1/4"	60 mesh

LIMITED WARRANTY

The technical data and suggestions for use contained in this document are true and correct to the best of our knowledge at the date of issuance. The statements of this document do not constitute a warranty, expressed or implied, as to the performance of these products. Since Diamond Vogel Paints does not control the application of its products, or the condition of the surfaces to which they are applied, Diamond Vogel Paint's liability will under no circumstances exceed replacement of the product. **All technical information is subject to change without notice.**

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