



Technical Data

PRODUCT DESCRIPTION

A 100% acrylic, industrial grade finish coat developed for use over properly primed steel, masonry and wood surfaces. It is non-yellowing and has excellent durability, flexibility and color retention in mild to moderate industrial environments.

INTENDED USES

Formulated for use as a finish coat on properly primed or previously painted interior and exterior structural steel, steel storage tanks, galvanized metal, wood, aluminum, and masonry surfaces.

PHYSICAL PROPERTIES

Color	Cotton White MC-1540, Safety Red MC-5504, Petro Gray MC-8504.
Bases	White Base MC-1541, Midtone Base MC-1542, Deep Base MC-1543, Neutral Base MC-0544 Tintable in "ACS" system. Also compatible with 896 Colorants.
Finish/Sheen	65 - 75 @ 60°
Resin Type	100% Acrylic Latex
Clean-up Solvent	Water
Solids By Weight	52%
Solids by Volume	40%
Theoretical Coverage**	643 ft ² /gal @ 1 mil
Dry Film Thickness / Coat	2.0 - 3.0 mils (50 - 75 microns)
Wet Film to Achieve DFT	5 - 7.5 mils (125 - 187.5 microns)
Coverage at DFT**	214 - 322 ft ² /gal @ 2 - 3 mils DFT
VOC	1.08 - 1.80 lbs./gal. (131 - 216 grams/liter)
Thinning	DO NOT THIN

Drying Time* (hours) At 70°F (21°C)	Set to Touch	Recoat
[ASTM D1640] - 83 Reapproved 1989	½ to 2 hours	2 - 4 hours

* **Dry times and dryfall performance vary with surface temperature, air temperature, air movement, humidity and film thickness. Hot surface temperatures can cause overspray to fuse to an adjacent substrate. Remove overspray from hot surfaces immediately!**

** **Coverage rates are estimates based on the products volume solids and make no allowance for material loss during application. Actual spread rates may vary dependent on applicator experience, surface porosity and texture.**

**RECOMMENDED PRIMERS,
FILLERS, SEALERS**

Ferrous Metal	<ul style="list-style-type: none"> Multi-E-Poxy 180 Epoxy Mastic Cote-All Universal Primer (AZ-Series) V-Cote 200 Acrylic Maintenance Primer (MC-Series) V-Tech 500 Hi-Build Epoxy Primer V-Tech 600 Fast Dry Universal Primer
Galvanized/Aluminum	<ul style="list-style-type: none"> Multi-E-Poxy 180 Epoxy Mastic V-Tech 500 Hi-Build Epoxy Primer V-Cote 200 Acrylic Maintenance Primer (MC-Series)
Interior Wood	<ul style="list-style-type: none"> DU-1508 Latex Enamel Undercoat CU-1401 Alkyd Enamel Undercoat
Exterior Wood	<ul style="list-style-type: none"> BU-1501 Sure Grip Primer AU-1404 Prime -O-Seal Alkyd Primer
Drywall	<ul style="list-style-type: none"> DU-1507 P.V.A.Latex Primer/Sealer DU-1514 P.V.A.Latex Primer/Sealer
Plaster	<ul style="list-style-type: none"> CU-1401 Enamel Undercoat DU-1502 Latex Primer/Sealer
Concrete Block	<ul style="list-style-type: none"> BF-1504 Fil-Kote Block Filler BF-1501 Permafil Acrylic Block Filler
Poured Concrete	<ul style="list-style-type: none"> BU-1501 Sure Grip Primer

SURFACE PREPARATION

All surfaces must be cured, clean, sound and free of all dirt, dust, efflorescence, wax, oil, grease, chalk and any other contamination that would interfere with new coating adhesion. Bare surfaces must be properly prepared and primed prior to application of this product. See "Recommended Primers" for appropriate primer to use depending on the substrate.

Wood Surfaces:

Sand smooth any exposed wood surfaces. Patch nail holes and any imperfections with exterior spackling compound and sand smooth. Remove sanding dust. Woods subject to tannin bleeding should be primed with a stain blocking primer (BU-1501 or AU-1301).

Ferrous Metal Surfaces:

Abrasive blast new steel to SSPC-SP-6. Use proper abrasive to achieve an average of 1.5 to 2 mil profile. Blasted surfaces should be primed before flash rusting occurs. If blasting is not practical, remove loose rust and mill scale with hand or power abrading tools as per SSPC-SP-2 and SSPC-SP-3. Treat rust free, cold rolled steel with a metal cleaning and etching solution.

Masonry Surfaces:

Poured concrete
Concrete block

New concrete must cure for a minimum of 30 days at 72°F (22°C) prior to coating application. Level all surface projections and mortar spatters by stoning. Rake mortar joints clean and remove all soluble salts. For a smooth surface on porous block, BF-1504 may be used prior to application of this product. For wet areas or exterior applications, use BF-1501 Permafil.

New Galvanized & Aluminum Surfaces:

Remove surface contamination or passivators by scrubbing with 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 or blast per SSPC-SP-7 brush-off blast.

Previously Painted Metal Surfaces:

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, or abrasive blast according to SSPC-SP-6 commercial blast. Use sandpaper to dull slick, glossy and/or non-porous surfaces with sandpaper.

Mildew:

Remove by using a solution of one (1) part household bleach and three (3) 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 containers to ensure color uniformity of all material. Protect product from freezing prior to and during application. Minimum surface and air temperature required for application is 50° F (10° C) and at least 5° F (3° C) above the dew point. Curing is affected by temperature, humidity and air movement. The minimums must be maintained for at least eight (8) hours in order to achieve proper film formation. Application at elevated temperatures, wind conditions, and/or low humidity may require special application procedures to achieve proper film formation. Finish coat should be applied at 2 - 3 mils DFT.

Brush or Roller:

A good quality synthetic brush will make application easier. Select a roller cover suited for the texture of the surface to be coated. Apply product in full even coats. Maintain a wet edge. To insure adequate film build, two coats are recommended when applying by brush or roller (see the drying times chart for recoat period).

Airless Spray:

Flush airless lines with water. Equipment must be clean prior to start. Apply the product in even coats and maintain a wet edge. Use multiple passes to achieve film build. Allow the product to dry between coats.

<i>Tip Orifice</i>	<i>Atomizing Pressure</i>	<i>Mat'l Hose ID</i>	<i>Manifold Filter</i>
0.015" to 0.017"	2800 - 3000 PSI	1/4" - 3/8"	60 mesh

SAFETY PRECAUTIONS

Paint Products contain chemical ingredients which are considered hazardous. Prior to use, read container label warnings and the current Material Safety Data Sheet for important health and safety information. Insure these instructions are practiced during product application and cure. **Keep out of the reach of children.**

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.**

Diamond Vogel Paint
1110 Albany Place SE Orange City, IA 51041
Phone 712.737.8880 Fax 712.737.4998
marketing@diamondvogel.com www.diamondvogel.com