



Heavy Duty Protective Coatings

PB-0411
V-Tech 700
Zinc Dust Metal Primer



Technical Data

PRODUCT DESCRIPTION

A rust inhibitive zinc coating formulated to tightly adhere to galvanized metal. Dry film meets Federal Specification TT-P-641G, Type II. VOC compliant.

INTENDED USES

Formulated for use on weathered or slightly rusted galvanized or rusty metal surfaces. May be used as a finish coat to give the appearance of a weathered galvanized finish.

PHYSICAL PROPERTIES

Color	Gray
Finish/Sheen	10 - 15 @ 60°
Resin Type	Alkyd
Clean-up Solvent	Diamond Vogel N-3023 Xylol
Solids By Weight	74%
Solids by Volume	43%
% of Zinc at DFT	61%
Theoretical Coverage**	689 ft ² /gal @ 1 mil
Dry Film Thickness / Coat	2 - 3 mils (50 - 75 microns)
Wet Film to Achieve DFT	4 - 6 mils (100 - 150 microns)
Coverage at DFT**	230 - 345 ft ² /gal @ 2 - 3 mils DFT
VOC's	3.71 lbs./gal. (445 grams/liter)
Thinning	DO NOT THIN

Drying Time* (hours) [ASTM D 1640]	At 70°F (21°C)
	Set to Touch - 2 1/2 hours
	Recoat Time - 14 hours

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

** 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 TOPCOATS

V-Tech 700 Zinc Dust Primer (Self-priming)
V-Cote 200 Acrylic Maintenance Primer/Finish (MC-Series)
V-Cote 222 Acrylic Maintenance Finish (MC-Series)

SURFACE PREPARATION

All surfaces must be cured, clean, sound, dry 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 prior to application of this product.

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.

New Galvanized & Aluminum Surfaces:

Remove surface contamination or passivators by scrubbing with a cleaning & etching solution

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.

SURFACE PREPARATION (continued)

Previously Painted

Metal Surfaces:

Prior to sandblasting, 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. All previous coatings should be removed as per SSPC-SP-6 commercial grade blast.

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 thoroughly prior to application. Constant agitation is recommended to keep heavy zinc material in suspension. 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.

Brush or Roller:

2 coats may be required to achieve proper dry film thickness when using brush or roller application. Apply product in full even coats. Maintain a wet edge. Allow the product to dry between coats (See the drying times chart for re-coat period). A good quality natural bristle brush will make application easier. Select a roller cover suited for the texture of the surface to be coated.

Airless Spray:

Flush airless lines with Diamond Vogel N-3023 Xylol. Equipment must be clean prior to start. Apply a wet coat in even, parallel passes with 50% overlap to avoid bare areas.

<i>Tip Orifice</i>	<i>Atomizing Pressure</i>	<i>Mat'l Hose ID</i>	<i>Manifold Filter</i>
0.015" to 0.017"	2500 - 3000 psi	1/4" or 3/8"	None

STORAGE & SHELF LIFE

Store in protected area maintained at 40 - 100°F (4 - 38°C), for up to two years from date of manufacture. Subject to inspection thereafter.

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.**