

Endura-Zinc 700

Zinc Dust Metal Primer

TECHNICAL DATA

HIGH PERFORMANCE

Product Description

Endura-Zinc 700 provides flexibility in protecting or reconditioning ferrous and galvanized metal. The rust-inhibitive, zinc coating is designed to tightly adhere to galvanized metal, including weathered or rusted galvanized surfaces. Endura-Zinc 700 may also be used as a finish coat to provide the appearance of a weathered galvanized finish allowing for maximum versatility when renovating existing galvanized surfaces.

Intended Uses

Exterior surfaces

Apply to:

- Ferrous metal
- Maintenance primer
- Shop coat Touch up or repairs

Protects:

- Equipment
- Weathered galvanized
 Macl

• Structural or support steel

- Machinery
- Weathered roofs

The above are general recommendations and not intended to limit the use of Endura-Zinc 700. Test areas are always recommended to confirm results.

NOT INTENDED FOR IMMERSION SERVICE.

Tanks

Physical Properties

• Industrial environments

| Alkyd | |
|--|--|
| Low Sheen, 10–15 @ 60° | |
| Gray PB-0411 | |
| 77% | |
| 46% | |
| 61% | |
| 738 ft²/gal @ 1 mil | |
| 2.0–3.0 mils (50–75 microns) | |
| 4.4–6.5 mils (110–162.5 microns) | |
| 246–369 ft²/gal | |
| 3.5 lbs./gal (420 grams/liter) | |
| DO NOT THIN | |
| Diamond Vogel N-3023 Xylol | |
| Set to Touch: 2 ½ hours at 70°F (21°C) and 50% Relative Humidity | |
| Recoat: 14 hours at 70°F (21°C) and 50% Relative Humidity | |
| | |

^{*} 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.

Performance Characteristics

Endura-Zinc 700 meets or exceeds the following performance testing criteria:

| Test Name | Test Method | Results |
|----------------------|---|--|
| Abrasion Resistance | ASTM D 4060, CS-17 Wheel 1kg Load, 1000 Cycles | 0.3248 wear index |
| Adhesion Testing | ASTM D 4541 Elcometer Pull Test | 200 lb./sq. in. |
| Adhesion Testing | ASTM D 3359 Cross Hatch | Not less than 2B average |
| Impact Resistance | ASTM 2794 | Direct 10 in./lbs. Reverse <5 in./lbs. |
| Heat Resistance | ASTM D 2485 High Temperature Service | Passes at 250° F (121° C) |
| Pencil Hardness | ASTM D 3363 | 4B |
| Cyclic Weathering | ASTM D-5894 - 336 hours | Face blisters #8 few, face rust rated 9, <1 mm scribe creepage |
| Corrosion Resistance | ASTM B 117-94 Salt Spray (Fog) Test - 168 hours | No face blistering, no face rust, 1 mm scribe creepage |

Qualifications

Federal Specification: TT-P-641 G, Type II (Dry Film)

Page 1 of 3 Endura-Zinc 700 Rev: 7/18



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



HIGH PERFORMANCE

TECHNICAL DATA

Surface Preparation

All surfaces must be clean, sound, dry 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. See "System Selector" for appropriate primer to use depending on the substrate.

New Ferrous Metal & Previously Painted 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, Hand Tool Cleaning and SSPC-SP-3, Power Tool Cleaning. For new steel and complete removal of the old coating, abrasive blast according to SSPC-SP-6, Commercial Blast Cleaning. Use proper abrasive to achieve a 1.5 to 2.0 mil profile as per SSPC-SP-6, Commercial Blast Cleaning. Blasted surfaces must be primed before flash rusting occurs.

New Galvanized & Aluminum Surfaces: Remove surface contamination or passivators by scrubbing with a cleaning and etching solution or blast per SSPC-SP-7, Brush-Off Blast Cleaning.

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 and 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 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 recoat 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 and pinholes. If required, crosshatch spray at right angles. Remove all filters from the unit and airless spray gun.

| Tip Orifice | Atomizing Pressure | Material Hose ID | Manifold Filter |
|------------------|--------------------|------------------|-----------------|
| 0.013" to 0.017" | 2500-3000 PSI | 1/4" or 3/8" | none |

Packaging Shipping Weight

| Product | 1 Gallon | 5 Gallon | Product | 1 Gallon | 5 Gallon |
|-----------------|---------------|---------------|-----------------|----------------------|-----------------------|
| Endura-Zinc 700 | 1 Gallon Pail | 5 Gallon Pail | Endura-Zinc 700 | 15.47 lbs. (7.02 kg) | 75.57 lbs. (34.28 kg) |

Storage

Two years from date of manufacture when maintained in protected area at a temperature of 40° to 100°F (4° to 38°C). Subject to inspection thereafter.

Safety Precautions

*WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

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

Safety Data

"Safety Data Sheets" are available from your Diamond Vogel representative or the Diamond Vogel website at www.diamondvogel.com. Prior to use of this product, obtain and review the Safety Data Sheet for health and safety information. Read and observe all precautionary notices on container labels. NOT INTENDED FOR RESIDENTIAL USE.











HIGH PERFORMANCE

TECHNICAL DATA

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 does not control the application of its products, or the condition of the surfaces to which they are applied, Diamond Vogel's liability will under no circumstances exceed replacement of the product. All technical information is subject to change without notice.

Additional Information

Cautions and Warnings information is located on the back panel of each product label.

For current information regarding VOC regulations for specific geographical regions, please contact Technical Service at Diamond Vogel Corporate Headquarters, (Contact information is located at the bottom of the page).