Commercial Performance Coatings

## 2K Epoxy Zinc Rich Primer

# ZNP-200/201 CPC175

Component A
ZNP-200 Epoxy Zinc Rich Primer

Component B
ZNP-201 Epoxy Zinc Rich Primer Catalyst

### RECOMMENDED USE

**Type:** Organic Zinc Primer

A high solids, two component, organic zinc rich primer for structural steel and other carbon steel surfaces which may be exposed to severe environments. This product contains 75% zinc in dried film (by weight). An epoxy intermediate primer is optional for maximum corrosion protection.

### PHYSICAL CONSTANTS

| | |
|---|---|
| **VOC** | 2.67 lbs/gal (Mixed) |
| **Percent Solids By Weight** | 87.9 ± 2% |
| **Percent Solids By Volume** | 69.2% ± 2% |
| **Weight Per U.S. Gallon** | 22.0 ± 0.5 lbs/gal |
| **Flash Points** (Pensky-Martens) | |
| ZNP-200 | 84ºF (29ºC) |
| ZNP-201 | 132ºF (55ºC) |

### PERFORMANCE FEATURES

| | |
|---|---|
| **Color** | Gray |
| **Sheen** | Flat |
| **In Service Temperature** | Dry Heat = 350ºF (177ºC) |

### SURFACE PREPARATION

Zinc rich coatings require direct contact between the zinc pigment in the coating and the metal substrate for optimum performance. Surface must be prepared by abrasive blasting or chemical cleaning free of dirt, grease and oil. Steel surfaces must be thoroughly cleaned and preferably phosphated for maximum adhesion.

### APPLICATION DATA

**Mixing Directions**

**ZNP-200 is not recommended to be put on a shaker.** Before blending components, mechanically mix ZNP-200 until uniform. Mixed product should always be used in a pot that has continuous agitation to prevent the zinc from settling. **Thoroughly shake or mechanically mix ZNP-201 Primer Catalyst prior to mixing with ZNP-200.** Add the entire contents of ZNP-201 to ZNP-200 and mix thoroughly with a mechanical mixer. No digestion time is required. **Before spraying, strain through a 30-60 mesh screen to prevent fluid tip from plugging. Maintain constant agitation during use to prevent settling.**

Mixing ratio is 6.14 to 1. Stir thoroughly before using. Mix entire contents of component A (ZNP-200) with entire contents of component B (ZNP-201).

| ZNP-200 | : | ZNP-201 |
|---|---|---|
| 6.14 | : | 1 |

Note: Moisture contamination in components can result in poor properties of applied films or gelling of the material. Do not open until ready to use.

**Pot life**
2 hours

**Thinning**
Thin up to 44 oz. per gallon with *CPC-SP9002* Thinner for spray application. Before spraying, strain through a 30 to 60 mesh screen to prevent fluid tip plugging. Never thin beyond legal limits in VOC regulated areas.

**Application Equipment**
Changes in application equipment, pressures and/or tip sizes may be required depending on ambient temperatures and application conditions.

Air Spray: DeVilbiss MBC-510 gun, 64 air cap with “E” tip and needle or equivalent equipment. Atomization pressures 30-60 psi, fluid pressure 15 psi.

Airless Spray: Use equipment recommended by the manufacturer as suitable for application of zinc rich coatings. Equipment must be capable of maintaining a minimum of 2500 psi at the tip without surge. 0.017” (0.432 mm) to 0.021” (0.533 mm) orifice.

Brush or Roller Application: Not recommended.

## APPLICATION DATA (CONT.)

**Drying Times***
(6 mils wet @ 77ºF(25ºC) and 50% relative humidity)

| | |
|---|---|
| To Touch: | 2 hours |
| To Handle: | 3 hours |
| Recoat: | Minimum 2 hours – Maximum 8 hours |
| *Recommended Wet Film Build:* | *3.1 – 6.2 mils* |
| *Recommended Dry Film Build:* | *2.1 – 4.3 mils* |

Film in excess or below these recommended film builds may cause problems such as, adhesion failure, pigment floatation, solvent popping, slow cure, and accelerated gloss and color failure.

**Recommended Spreading Rate**
260 - 520 sq. ft. per U.S. gallon @ 2-4 mils dry film thickness. Coverage figures do not include losses due to mixing, transfer or application of coating or losses due to surface irregularities or porosity.

**Clean Up**
*CPC-SP9002*

**Application Precautions and Limitations**
Not intended for residential use. Apply only when air, product and surface temperatures are above 50°F (10°C) and surface temperature is at least 5°F (3°C) above the dew point. Drying times listed may vary depending on temperature, humidity and air movement. Spray equipment must be handled with due care and in accordance with manufacturer's recommendation. High-pressure injection of coatings into the skin by airless equipment may cause serious injury.

## SAFETY

These materials are designed for application only by professional, trained personnel, using proper equipment under controlled conditions and are not intended for sale to the general public. Safe application of paints and coatings requires knowledge of equipment materials and individual training. Directions and precautionary information on both equipment and products should be carefully read and strictly observed for personal safety and property protection. Consideration must be given to eliminate conditions, which may generate hazardous atmospheres during spray application or subject operators or bystanders to injury or illness. Special precautions must be taken when utilizing spray equipment, particularly airless equipment. High-pressure injection of coatings into the skin by airless equipment may cause serious injury requiring immediate medical attention at a hospital. Treatment advice may also be obtained from Poison Centers. Air quality should be maintained with adequate ventilation; applicators can achieve additional protection by wearing respirators and other protective garments such as gloves and overalls. In all cases, wear protective eye equipment. During the application of all coatings materials, all flames, welding and smoking must be prohibited. Explosion proof equipment must be used when coating these materials in confined areas.

**PRECAUTIONARY INFORMATION**
Before using the products listed herein, carefully read each product label and follow directions for its use. Please read and observe all warnings and precautionary information on all product labels. Prevent all contact with skin and eyes and breathing of vapors and spray mist. Repeated inhalation of high vapor concentrations may cause a series of progressive effects including irritation of the respiratory system, permanent brain and nervous system damage and possible unconsciousness and death in poorly ventilated areas. Eye watering, headaches, nausea, dizziness and loss of coordination are indications that solvent levels are too high. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.
KEEP OUT OF THE REACH OF CHILDREN

**MEDICAL RESPONSE**
Emergency Medical or Spill Control Information (412) 434-4515; CANADA (514) 645 - 1320 Have label information available.

**MATERIAL SAFETY DATA SHEET**
Material Safety Data Sheets for the PPG products mentioned in this publication are available through your PPG Distributor. FOR ADDITIONAL INFORMATION REGARDING THIS PRODUCT, SEE THE MSDS AND LABEL INFORMATION.

To the best of our knowledge, the technical information in this bulletin is accurate; however, since PPG Industries, Inc. is constantly improving its coatings and paint formulas, the current technical data may vary somewhat from what was available when this bulletin was printed. Contact your PPG Distributor for the most up-to-date information.

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