Commercial Performance Coatings

ZNP-704

CPC 82

Inorganic Zinc Primer

PRODUCT DESCRIPTION	
ZNP-704A **INORGANIC ZINC PRIMER** **Component A**	**ZNP-704Z INORGANIC ZINC POWDER** **Component B**

TYPE: Inorganic Zinc

RECOMMENDED USE
ZNP-704 Inorganic Zinc Primer is a low VOC, heavy-duty two-component primer that provides excellent corrosion protection when applied to blasted steel. Provides galvanic protection similar to galvanizing.
MUST BE APPLIED WHEN RELATIVE HUMIDITY IS AT LEAST 30% AND NO HIGHER THAN 85%.

PHYSICAL CONSTANTS			
WEIGHT PER GALLON	21.4 lbs +/- 0.2 lbs	**FLASH POINTS**	
PERCENT SOLIDS BY WEIGHT	84.5% +/- 2%	53°F (11.7°C)	
PERCENT SOLIDS BY VOLUME	68% +/- 2%	**VOC**	3.3 lbs/gallon (maximum)
		SHELF LIFE	12 months for liquid component

PERFORMANCE FEATURES	
Color:	Gray with Red Cast
Gloss @ 60° Angle:	Matte (20 – 30)
Adhesion:	5B - Excellent
Abrasion Resistance:	Excellent
Topcoats:	AUE-100, AUE-300 & EPE-350, EPX-804

SOLVENT RESISTANCE	
Solvent Resistance:	Excellent

SURFACE PREPARATION

SSPC-SP6 (NACE #3) Commercial blast minimum.

Metal	Recommended Topcoats	Direct To Properly Treated Substrate
Ferrous metals	N/A	Excellent

APPLICATION DATA

MIXING DIRECTIONS

Use mechanical agitation to thoroughly mix ZNP-704A (Component A). Slowly mix the zinc dust, ZNP-704Z (Component B), into ZNP-704A (Component A) with agitation. Mix until uniform and free of lumps. Strain through a 30-60-mesh screen. Maintain agitation during use. **MUST BE APPLIED WHEN RELATIVE HUMIDITY IS AT LEAST 30% AND NO HIGHER THAN 85%.**

THINNING
Xylene; No more than 3%

POT LIFE
8 Hours at 77°F

RECOMMENDED WET FILM BUILD
Spray Application: 3.5 – 5.0 mils

RECOMMENDED DRY FILM BUILD
2.5 - 3.5 mils

DRYING TIME
Air-dry at 77°F

Dry to Touch:	20 - 30 minutes
Dry to Handle:	2 - 4 hours
To Recoat:	8 - 12 hours

No maximum recoat time; as long as the surface is clean and free of dirt and contaminants

Drying time listed may vary, depending upon film build and temperature

Application of film thickness in excess of that recommended for this product will substantially extend dry time.

RECOMMENDED SPREADING RATE
1091SQ. FT at 1.0 mil dry film per U.S. Coverage figures do not include losses due to mixing, transfer or application of coating or losses due to surface irregularity.

CLEAN UP
Isopropanol

APPLICATION PRECAUTIONS AND LIMITATIONS

Do not apply at temperature below (0°F) or above 140°F
Apply at humidity range 30 – 85%
In –Service Temperature: Dry heat - 750°F / Wet heat - 140°F
Lack of agitation will result in poor pigment dispersion and settling of Component B.
Protect liquid and mixed paint from moisture. Small amounts of moisture contamination will cause gelling.

APPLICATION EQUIPMENT:

Conventional Spray:
Use a double regulated pressure pot equipped with an air agitator. Binks gun #18, 62 or 69, fluid nozzle #66, air nozzle #63 PE or equivalent. Air hose, 5/16 inch (7.94 mm). Material hose, ½ inch (12.70 mm) inside diameter, no longer than 25 feet (7.6m) in length.

Airless Spray:

Pressure at tip, 1500 psi. 30 mesh inline filter. Teflon, neoprene or leather packing. Tip size, 0.017" to 0.021". Fan size, 40° to 90°. Continuous agitation must be maintained.

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.

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 (304) 843-1300. 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.

PPG Industries
Commercial Coatings
We're Everywhere You Look

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