



W-POXI ENG 121

**PRODUCT DESCRIPTION**

Conventional two-component epoxy primer with zinc phosphate corrosion-inhibiting pigmentation. Fast-drying, excellent anticorrosive protection, flexibility, and hardness.

**RECOMMENDED USE**

Recommended for painting equipment, metal structures, and machinery exposed to medium aggressiveness environments, such as pulp and paper plants, platforms, steel mills, and chemical industries.

**CERTIFICATIONS AND APPROVALS**

When supplied to comply with the ROHS Directive (Restriction of Certain Hazardous Substances), this product includes the letter R in its nomenclature description.

**PACKAGING**

<b>Component A</b>	0.95 US gal Package containing 0.63 US gal 52.83 US gal Package containing 50.17 US gal
<b>Component B</b>	0.40 US gal Package containing 0.32 US gal 5.28 US gal Package containing 5.28 US gal

**CHARACTERISTICS**

<b>Color</b>	Gray.
<b>Gloss</b>	Matte
<b>Volume Solids</b>	35 ± 2% (ISO 3233)
<b>Shelf Life</b>	12 months
<b>Dry Film Thickness</b>	1.2 mils - 2.0 mils
<b>Dry Heat Resistance</b>	Maximum temperature 140 °F. The product maintains its chemical properties up to a temperature of 140 °F, but from 140°F, color and gloss variations in the paint may occur.
<b>Theoretical Coverage</b>	356.6 ft <sup>2</sup> /gal without dilution at a dry film thickness of 1.6 mils. Loss factors during application are not considered.

**DRYING**

<b>Drying</b>	<table border="0" style="width: 100%; text-align: center;"> <tr> <td><b>50 °F</b></td> <td><b>77 °F</b></td> <td><b>95 °F</b></td> </tr> </table>			<b>50 °F</b>	<b>77 °F</b>	<b>95 °F</b>
<b>50 °F</b>	<b>77 °F</b>	<b>95 °F</b>				
<b>Touch</b>	40 min	10 min	7 min			
<b>Manipulation</b>	4 hours	2 hours	1 hour			
<b>Final</b>	168 hours	72 hours	72 hours			
<b>Recoat Drying</b>	<table border="0" style="width: 100%; text-align: center;"> <tr> <td><b>50 °F</b></td> <td><b>77 °F</b></td> <td><b>95 °F</b></td> </tr> </table>			<b>50 °F</b>	<b>77 °F</b>	<b>95 °F</b>
<b>50 °F</b>	<b>77 °F</b>	<b>95 °F</b>				
<b>Minimum</b>	Wet-on-wet	Wet-on-wet	Wet-on-wet			
<b>Maximum</b>	24 hours	24 hours	24 hours			

**SURFACE PREPARATION**

**Standard Surface Preparation**

The performance of this product is related to the degree of surface preparation. In case of doubts, for more information, consult WEG's Technical Department.

Remove accumulated dirt using a dry brush, clean dry cloth, compressed air blow, vacuum, or a combination of these. Remove soluble salts by washing with plenty of fresh water, preferably under low pressure (up to 5,000 psi), according to SSPC-SP12/NACE No. 5 standard.

**Degreasing**

Completely remove oils and greases by applying a degreasing product or according to the solvent cleaning method. Whenever cleaning surfaces with cloths, replace them to avoid saturation. Do not



use cotton waste or colored cloths.

**Carbon Steel Surfaces**

Hard surface layers (e.g., layers resulting from flame cutting) must be removed by grinding before starting abrasive blasting.

All welds must be inspected and, if necessary, repaired before completing abrasive blasting. Porosities, cavities, weld splatter, etc., must be repaired with proper mechanical treatment or welding repair. In other areas, round edges and sharp corners (r e 0.0787 in, ISO 8501-3).

**Over Primer**

Respect the product recoat interval. If exceeded, perform light manual/mechanical sanding to break gloss and clean dust/residues for better adhesion between coats.

**APPLICATION PREPARATION**

<b>Mixing</b>	Homogenize the content of each component using mechanical or pneumatic stirring (A and B). Ensure no sediment remains at the bottom of the container. Add component B to component A in the indicated mixing ratio under stirring until completely homogenized, respecting the mixing ratio.
<b>Mixing Ratio</b>	By volume: 2 A x 1 B.
<b>Thinner</b>	PU DILUENT 5003
<b>Dilution</b>	Ready to use.
<b>Notes</b>	No dilution is required. Product ready to use. If necessary, consult the WEG Technical Department.
<b>Pot Life</b>	4 h  The shelf life of the mixture is reduced as the ambient temperature increases.  The pot-life test of the mixture is carried out according to ABNT NBR 15742; however, different volumes of paint prepared at once, combined with varying ambient and paint temperatures, will affect the mixture's shelf life, potentially resulting in outcomes different from those stated in this technical bulletin.
<b>Induction Time</b>	Wait 15 to 20 minutes before application.  In very hot locations, we recommend consulting WEG's Technical Department.

**APPLICATION METHODS**

<b>Conventional Spray Gun</b>	Spray gun: JGA 502/3 Devilbiss or equivalent Fluid nozzle: EX Air cap: 704 Atomization pressure: 50 - 70 psi Tank pressure: 10 - 20 psi.
<b>Airless Spray Gun</b>	Airless: Use minimum pump 60:1 Fluid pressure: 1500 - 2500 psi Hose: 1/4" inner diameter Nozzle: 0.015" - 0.021".
<b>Brush</b>	Recommended only for small area touch-ups or "stripe coat" (screws, nuts, weld beads, sharp corners, and touch-ups).
<b>Cleaning of the equipments:</b>	PU DILUENT 5003
<b>Notes</b>	The data presented serves as a guide and similar equipment may be used. Changes in pressures and nozzle sizes may be necessary to improve spraying characteristics. Purge the compressed air line to avoid paint contamination. Do not allow catalyzed product to remain in contact with application equipment, as at temperatures above the



indicated "pot life", the paint will show variation in flow and will harden, making cleaning difficult.

Before application, ensure that the equipment and respective components are clean and in optimal condition.

After mixing two-component products, if there are application stops and the pot life has been exceeded (paint shows variation in flow), it can no longer be re-thinned for later application.

In spray application, overlap each gun pass by 50%, finishing with a cross pass. This technique avoids uncovered or unprotected areas and ensures proper aesthetic finish.

Reinforce all sharp corners, gaps, and weld beads with a brush to avoid premature failures in these areas.

Clean all equipment immediately after use.

It is considered good practice to periodically wash the spraying equipment during the day. The cleaning frequency depends on the amount sprayed, temperature, and elapsed time, including all delays.

**APPLICATION PERFORMANCE**

For coatings applied in coastal areas exposed to sea spray, it is recommended to wash with fresh water between coats to remove deposited impurities.

Light colors may require more than one coat to achieve uniform coverage.

Do not apply the product after the pot life has been exceeded.

For optimal application properties, the paint temperature must be between 69.8°F - 80.6°F before mixing and application.

Before application, observe weather conditions: there must be no threat of rain or drizzle. Surface temperature must be at least 37.4°F above the dew point, and relative humidity should not exceed 85%. Adverse conditions may cause color variations and other characteristics. Consult WEG Technical Department.

We recommend painting only if the measured surface temperature is at least 5.4°F above the dew point.

Substrate temperature, climatic and environmental conditions during application and curing, as well as applied film thickness, may affect drying time.

Epoxy systems may have longer curing times when exposed to low temperatures. For curing below 50°F, consult WEG Technical Department.

Epoxy-based products are well known for their excellent corrosion-resistant properties, although they have limited resistance to sunlight. When the applied coating is exposed to weathering, it may gradually lose its gloss, a phenomenon known as chalking, which can also cause a slight change in color. It is important to note that this chalking does not compromise the coating's corrosion protection.

Paintings performed with varying application methods on the same project may result in differences in gloss and final appearance.

Small variations in color, appearance, and gloss (more noticeable in dark colors), as well as delayed curing and performance compromise, may occur during high humidity, rainy days, cold locations, or when parts dry outdoors.

Under adverse weather conditions in indoor and/or outdoor environments with high relative humidity, rain or drizzle, low or very low temperatures, and excessively high temperatures, variations in color and other product characteristics may occur. Please consult WEG's Technical Department for more information.

**SYSTEM COMPATIBILITY AND MAINTENANCE REPAINTING**

For topcoat application over the product, the repainting interval must be respected; the surface must be dry and free of contaminants.

**SAFETY PRECAUTIONS**

Product developed for industrial use intended for handling by qualified professionals. Carefully read all information contained in the SDS of this product, available at: [www.weg.net](http://www.weg.net).

Store in a covered and well-ventilated place. Keep the container tightly closed and away from sources of heat or ignition.

Use only in well-ventilated areas, avoiding the accumulation of flammable vapors. Keep the product away from heat and sources of ignition.



Do not inhale mists/vapors/aerosols generated during handling and/or application. Use protective gloves/protective clothing/eye protection/face protection.  
Empty containers and materials with paint residues must be disposed of according to current legislation. Take care of the environment.

---

**NOTE**

The information contained in this technical bulletin is based on the experience and knowledge acquired in the field by WEG's technical team.

In the event of using the product without prior consultation with WEG regarding its suitability for the purpose for which the customer intends to use it, the customer acknowledges that the use will be at their own exclusive responsibility, and WEG is not liable for the behavior, safety, suitability, or durability of the product.

Some information mentioned in this bulletin is only an estimate and may vary due to factors beyond the manufacturer's control. Therefore, WEG does not guarantee and assumes no responsibility for performance, efficiency, or any material or personal damages resulting from the incorrect use of the products in question or from the information contained in this Technical Bulletin.

The information contained in this technical bulletin is subject to periodic modifications, without prior notice, due to our policy of continuous improvement and evolution of our products and services, providing quality solutions to meet the needs of our customers.

---