

W-POXI ADA 30

PRODUCT DESCRIPTION

Slip-resistant epoxy paint, polyamine-cured, solvent-free, low VOC, suitable for indoor use. High gloss, high-build single coat. Part of flooring systems with excellent abrasion, mechanical, and chemical resistance.

RECOMMENDED USE

The product was developed for protection of floors in food industries, hospitals, laboratories, pulp and paper plants, chemical and petrochemical industries, sugar mills, distilleries, and other industrial floors. This paint should be applied over the W-POXI CVS 301 sealer, W-POXI HSS 301, and W-POXI PRP 301 primer or another primer recommended by WEG's technical department.

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

Component A	0.95 US gal Package containing 0.76 US gal
Component B	0.24 US gal Package containing 0.19 US gal
Note	Note: Mix 80 - if necessary, a maximum addition of up to 2.87 lb per gallon is recommended.
	Consult the technical department for more details.

CHARACTERISTICS

Color	According to customer standard. RAL and Munsell chart.
Gloss	Gloss
VOC content	1127.96 lb/gal
Volume Solids	98 ± 2% (ISO 3233)
Shelf Life	24 months
Dry Film Thickness	11.8 mils - 39.4 mils
Dry Heat Resistance	Maximum temperature 248 °F. The product maintains its chemical properties up to a temperature of 248 °F, but from 140°F, color and gloss variations in the paint may occur.
Theoretical Coverage	61.5 ft ² /gal without dilution at a dry film thickness of 25.6 mils. Loss factors during application are not considered.

DRYING

Drying			
	50 °F	77 °F	95 °F
Touch	8 hours	5 hours	3 hours
Manipulation	18 hours	12 hours	8 hours
Final	240 hours	168 hours	144 hours
Light traffic		3 days	
Heavy traffic		7 days	
Recoat Drying			
	50 °F	77 °F	95 °F
Minimum	24 hours	12 hours	6 hours
Maximum	48 hours	24 hours	12 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.

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.

If the maximum interval indicated for applying the subsequent coat is exceeded, it is necessary to proceed with surface sanding to obtain adhesion between layers.

Accumulated dirt must be removed using a dry brush, and soluble salts must be removed by washing with fresh water under high pressure.

The performance of this product is directly related to the degree of surface preparation, which must be carried out in accordance with SSPC-SP13/NACE 6 and Technical Guideline No. 03732 of the ICRI - International Concrete Repair Institute, CSP 1-9. The substrate must be sound, in good condition, level, and even, and free from oil, dust, or any other type of contaminant.

This coating must be directly applied to the sealer W-POXI CVS 301, W-POXI HSS 301 and primer W-POXI PRP 301 or another primer recommended by WEG's technical department.

Remove all loose mortar and foreign material. The surface must be free of laitance, concrete dust, dirt, release agents, moisture-cured membranes, loose cement, and hardeners.

Observe the overcoating interval of the sealer or primer before applying the product. If the overcoating time is exceeded, sand as described in the sealer data sheet.

Concrete Surfaces

Before painting, all masonry or concrete must be cured (28 days for cement mortar or concrete) and dry, without cracks, fissures, or voids, and perfectly adhered to the base or other mortar and coating layers.

No coating or paint should be applied on concrete or cement-sand screed with curing accelerator unless representative tests indicate satisfactory adhesion of the paint system.

For old concrete, a technical inspection is recommended. For more information, consult the Concrete Surface Preparation and Application Manual.

Mold release agents, cement laitance, grease, oil, wax, or any other contaminants that have penetrated or deposited on the surface must be removed, along with all accumulated dust.

The product must be used following guidance from our technical department to achieve expected performance. Factors such as surface condition, roughness, contaminant level, and other details are essential for proper surface preparation.

To achieve a completely smooth finish, prepare the surface with filler or acrylic putty before painting, followed by sanding and cleaning dust and residues.

APPLICATION PREPARATION		
Mixing		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.
Mixing Ratio		By weight: 100 A x 15 B.
Thinner		Not applicable.
Dilution		Ready to use.
Pot Life		30 min
		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.



Induction Time		No induction time required.
		In very hot locations, we recommend consulting WEG's Technical Department.
APPLICATION METHODS		
	Roller	Trowel, spatula, or notched steel squeegee. Pour the coating onto the floor and spread the material using a steel trowel or notched squeegee, followed by the use of a spike roller. Make overlapping passes over the still-wet film within the pot life of the mixture, removing any entrapped air incorporated during mixing and application.
	Brush	Recommended only for small area touch-ups or "stripe coat" (screws, nuts, weld beads, sharp corners, and touch-ups). Use a brush 3.0 to 3.94 inches wide for larger surfaces and 0.98 to 1.5 inches for touch-ups.
	Cleaning of the equipments:	Not applicable.
	Notes	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. Reinforce all sharp corners, gaps, and weld beads with a brush to avoid premature failures in these areas. Clean all equipment immediately after use.

APPLICATION PERFORMANCE

The recommended layer thickness between 20 to 80 mils depends on the amount of Mix 80 to be used.
The higher the layer, the greater the need for Mix 80.
Without this additive, exceeding 40 mils is not recommended, as film formation defects may occur.

Even when chalking occurs, the film is not impaired in terms of protection. On freshly painted surfaces in direct contact with water during the curing process, localized staining with color change (more visible in darker colors), curing delay, and compromised product performance may occur.

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.

We recommend painting only if the measured surface temperature is at least 5.4°F above the dew point.
Do not apply at steel temperatures below 50°F.

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

During the initial curing (first 24 hours), humidity must not exceed 85%, otherwise the visual appearance may be compromised.

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

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

Anti-slip products based on epoxy resin for concrete have excellent mechanical properties but low resistance to exposure to sunlight. When exposed to weathering, the applied film will show loss of gloss (chalking) and color change over time.



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

Must not be applied under adverse conditions, such as relative humidity (RH) above 85%, as color and appearance changes may occur.

Application of the coating system may require the paints involved to be applied in two or more coats to achieve a uniform layer with dry film thickness suitable for the expected appearance and performance.

Product yield depends on the condition of the surface to be repaired. The theoretical calculation of paint quantity should consider surface condition. To achieve expected yield, control the amount of paint applied per area. Refer to the Application Manual for more information.

Traffic release depends on environmental curing conditions. For floor painting scheduling, consider a 7-day final curing period. Practical tests may allow 3 days for light traffic (people) and a minimum of 7 days for heavy traffic (forklifts, trucks).

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.

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.

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.

APPLICATION MANUAL

1. GENERAL RECOMMENDATIONS FOR PAINTING:

1.1. Environmental conditions, surface cleaning, interval between coats: Comply with all characteristics described in the technical data sheet.

1.2. No paint shall be applied if there is an expectation that the ambient temperature may drop to 32 °F before the paint has dried.

1.3. Paint shall not be applied during rain, fog, or mist, or when the relative humidity exceeds 85% (eighty-five percent), nor when such conditions are expected to occur, as this may compromise intercoat adhesion or total adhesion of the applied film.

1.4. Each coat of paint must have a uniform thickness, free from defects such as porosity, wrinkling, blistering, bubbles, craters, or impregnation of other visible contaminants.

1.5. Concrete surfaces must receive appropriate treatment to ensure proper performance of the paint system.

2. GENERAL RECOMMENDATIONS FOR FLOORING:

2.1. To allow the protective system to be applied, the surface must be clean, solid, free from any type of contaminant, completely dry, and sufficiently rough to ensure adhesion of the protective system to be Applied.

2.2. The floor must have a neutral (7) or slightly alkaline (10) pH.

2.3. No coating or paint shall be applied on concrete or subfloors containing curing accelerators unless representative tests indicate satisfactory adhesion of the painting system.

2.4. No coating or paint shall be applied unless the concrete (or mortar subfloor of cement and sand) is completely dry and cured for at

least 28 days under normal climatic conditions.

2.5. Coatings shall not be applied on floors contaminated with oils or aggressive products. The floor must be effectively cleaned. If application is performed over contaminant residues, the coating film may detach and exhibit various types of failures and defects.

2.6. The concrete design must include prior waterproofing to prevent rising damp or groundwater from ascending through the concrete capillarity

, which may cause blistering and peeling of the coating.

2.7. Check for moisture presence in concrete according to ASTM D 4263, summarized below:

2.7.1. Attach a plastic sheet measuring 18 x 18 inches (457 mm x 457 mm) using 3M Silver Tape, ensuring all edges are well sealed;

2.7.2. Leave the plastic sheet sealed to the concrete for at least 16 hours;

2.7.3. After this period (between 16-24 hours), remove the plastic sheet and visually inspect both the underside of the sheet and the concrete surface for moisture presence;

2.7.4. Perform one test area sampling per H 495 ft² or proportional area;

2.7.5. Do not perform painting if any residual moisture is detected on the plastic sheets from the samples.

3. GENERAL RECOMMENDATIONS FOR PAINTING OVER AGED COATINGS:

3.1. An analysis must be performed to verify compatibility between the aged coating and the new system to be applied. If incompatible, painting shall not be performed, or all aged coating must be removed. If compatible, sanding (to break gloss and promote adhesion) and surface cleaning shall be performed.

3.2. If detachment of the aged coating occurs (even between compatible systems), scraping and/or full removal of the old coating must be performed. Tools such as steel scrapers, scarifiers, and grinders with G-16 - G-24 stones may be used.

3.3. After scraping, sanding, or any repair, the surface must be free from contaminants and residues.

3.4. Contact the WEG Paints Technical Department to evaluate the need for primer application.

4. PAINT APPLICATION (BASIC RECOMMENDED METHODOLOGY):

4.1. Initial Degreasing:

4.1.1. Thoroughly wet the entire surface with clean water, under high pressure and preferably hot;

4.1.2. Evenly spread a biodegradable detergent solution over the entire area, according to the detergent manufacturer's instructions;

4.1.3. Scrub vigorously using industrial scrubbers, grinders, and/or nylon brushes or stiff

brooms

4.1.4. Allow the solution to act for approximately 10 minutes;

4.1.5. Rinse thoroughly with clean water, under high pressure and preferably hot, and allow to dry;

4.1.6. Repeat the degreasing process as many times as necessary. Optionally, milling may be performed on localized areas with heavy oil or acid contamination, followed by the degreasing process described above.

IMPORTANT NOTE: Before beginning application of the painting system described below, the floor must be completely dry and free of moisture. A torch may be used to assist drying, always verifying dryness with the plastic sheet or aluminum foil test (ASTM D 4263). Before painting, concrete moisture content must not exceed 6%.

4.1.7. These technical recommendations aim to achieve the best performance of the painting system.

4.2. Surface Preparation:

4.2.1. Surface preparation shall comply with Standard SSPC SP-13/NACE No. 6, ICRI Technical Guideline No. 03732, and be compared to the visual standards expressed as CSP 1 to 9:

CSP 1 - Acid etching

CSP 2 - Grinding

CSP 3 - Light shotblast

CSP 4 - Light scarification

CSP 5 - Medium shotblast

CSP 6 - Medium scarification

CSP 7 - Heavy abrasive blast

CSP 8 - Scabbled (steel or tungsten inserts)

CSP 9 - Heavy scarification

4.2.2. The type of surface preparation will affect the paint system's thickness and, consequently, the material consumption and performance, as shown in the table below:

VISUAL STANDARD (ICRI TECHNICAL GUIDE)

CSP 1 - Acid etching

Profile: 13.5 mils ± 2.5

Approx.: 342.9 micrometers

CSP 2 - Grinding

Profile: 16 mils ± 2.5

Approx.: 406.4 micrometers

CSP 3 - Light shotblast

Profile: 19 mils ± 2.5

Approx.: 482.6 micrometers



CSP 4 - Light scarification
Profile: 25 mils $\pm$ 2.5
Approx.: 635.0 micrometers

CSP 5 - Medium shotblast
Profile: 33 mils $\pm$ 2.5
Approx.: 838.2 micrometers

CSP 6 - Medium scarification
Profile: 63 mils $\pm$ 2.5
Approx.: 1600.2 micrometers

CSP 7 - Heavy abrasive blast
Profile: 87.5 mils $\pm$ 5
Approx.: 2222.5 micrometers

CSP 8 - Scabbled (steel or tungsten inserts)
Profile: 105 mils $\pm$ 5
Approx.: 2667.0 micrometers

CSP 9 - Heavy scarification
Profile: 107 mils $\pm$ 5
Approx.: 2717.8 micrometers

4.2.3. Scarification (Milling):

4.2.3.1. This method is an excellent option for repairing and restoring damaged surfaces, suitable for both light and heavy work. These machines are recommended for cutting anti-slip grooves, removing contaminated concrete layers such as grease, oil, rubber, synthetic pavements, paints, splashes, traffic markings, and other floor surface applications. The milling machine consists of an electric (three-phase or single-phase) or gasoline motor that rotates a drum fitted with tungsten carbide tools that chip and abrade the surface. The depth of removal depends on the type and shape of the discs used.

4.2.4. Manual and Rotary Hammer Grinders:

4.2.4.1. Grinders are intended for surface preparation, leveling, roughening, cleaning, and polishing of floors and coatings. These machines operate with electric motors (three-phase or single-phase) and one or two multipurpose discs (3 stones or diamond inserts per disc). Depending on floor hardness, carborundum or tungsten carbide inserts may be used.

4.2.5. Captive Shot Blasting with Centrifugal Turbines:

4.2.5.1. Another method of preparing concrete, especially floors, involves centrifugal turbines that project steel shot in a closed circuit. The turbine propels the shot against the concrete while a powerful vacuum removes dust and reclaims the abrasive for reuse. This process removes a few inches of concrete.

4.2.6. Acid Treatment: This type of surface treatment requires great care. Acid is only recommended for ground-level floors and walls, provided there is no infiltration risk, as acid attack on reinforcement can compromise structural strength and safety. When opting for this method, follow the steps below:

4.2.6.1. Pre-wet the surface, then apply a 15% hydrochloric acid (muriatic acid) solution in water (1 part commercial muriatic acid to 1 part water by volume). IMPORTANT NOTE: To calculate the required amount of solution, consider that 2.64 gal of muriatic acid solution covers approximately 161-194 ft².

4.2.6.2. Evenly spread the acid solution on the surface using a nylon or stiff brush, avoiding puddles, and allow it to act until the surface roughness resembles 80-grit sandpaper.

4.2.6.3. Rinse thoroughly with plenty of water to remove all acid residue and achieve near-neutral pH.

4.2.6.4. Apply the first coat of primer or coating once the concrete is dry.

5. GENERAL RECOMMENDATIONS FOR PAINTING NEW FLOORS:

5.1. Follow all instructions in the technical data sheet described in this document, as well as the recommendations above.

5.2. In case of doubts regarding floor performance, do not apply any product and contact the WEG Paints Technical Department.

5.3. For surface preparation and application, it is recommended to hire specialized and qualified companies responsible for product application.