



W-POXI HSV 30

PRODUCT DESCRIPTION

Clear, self-leveling epoxy amine varnish, cycloaliphatic-cured, solvent-free, low VOC. High-gloss, smooth, uniform, easy-to-clean, high-build single coat. Part of flooring systems with abrasion, mechanical, and chemical resistance.

RECOMMENDED USE

Product developed for application over floors and adhesives, protection of floors in food industries, hospitals, laboratories, and pulp and paper factories. For indoor use. This paint must be applied over W-POXI HSS 301 sealer or another primer recommended by WEG Technical Department. Can be applied over W-POXI HBA 301 finish.

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 0.63 US gal
Component B	0.40 US gal Package containing 0.32 US gal

CHARACTERISTICS

Color	Colorless.
Gloss	Gloss
Volume Solids	98 ± 2% (ISO 3233)
Flash Point	31 °C
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 ft²/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	2 hours	1 hour
Manipulation	30 hours	24 hours	18 hours
Final	240 hours	168 hours	144 hours

Recoat Drying

	50 °F	77 °F	95 °F
Minimum	30 hours	18 hours	16 hours
Maximum	48 hours	28 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.

The surface to be painted must be clean, dry, and free of impurities such as rust, dust, soluble salts, grease, oils, or other contaminants that may compromise product performance.

Product performance is associated with the degree of surface preparation.

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.

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.

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

Very smooth and glassy surfaces are not suitable for painting and should be treated according to technical guidance.

Over Primer

The product can be applied over a specific primer in order to form an appropriate coating system.

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. Avoid prolonged mixing, as frictional heat will significantly reduce the product's shelflife.
Mixing Ratio	By weight: 100 A x 47.5 B.
Thinner	Not applicable.
Dilution	Ready to use.
Notes	No dilution is required. Product ready to use. If necessary, consult the WEG Technical Department.
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

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.
Squeegee, Spatula and Trowel	Pour the paint onto the floor and spread the material using steel trowels or notched squeegees, followed by the use of a spiked roller, making passes and re-passes over the still-wet film and within the pot-life of the mixture, removing air incorporated during mixing and application of the paint.
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

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.

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.

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.

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

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).

Before applying this product, the applicator/client should contact the adhesive supplier to verify compatibility with this finish.

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.

Epoxy resin-based self-leveling products for concrete have excellent mechanical properties, but low resistance to exposure to sunlight. When the applied film is exposed to weathering, it will gradually show a loss of gloss, known as chalking, and as a consequence, a change in its color. It should be noted that even with this chalking, the film's anticorrosive protection is not compromised.

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 # 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 $\pm$ 2.5
Approx.: 342.9 micrometers

CSP 2 - Grinding
Profile: 16 mils $\pm$ 2.5
Approx.: 406.4 micrometers

CSP 3 - Light shotblast
Profile: 19 mils $\pm$ 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.