

W-POXI VARNISH HSS 30

PRODUCT DESCRIPTION

Modified two-component epoxy varnish, solvent-free. Sealer to promote adhesion on concrete, cement-asbestos, masonry, tiles, and wood, reducing excessive or irregular finish absorption on porous substrates.

RECOMMENDED USE

Indicated as a varnish for impregnation and surface sealing, providing an adhesion base for the specific paint system. Commonly used on floors, concrete tanks, walls, structural columns, among others. To make the painted surface smoother and glossier, two to three coats are recommended.

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	3.6L Package containing 3.6L 20L Package containing 20L
Component B	3.6L Package containing 3.6L 20L Package containing 20L

CHARACTERISTICS

Color	Colorless.
Gloss	Gloss
VOC content	10.73 g/l
Volume Solids	98 ± 2% (ISO 3233)
Shelf Life	24 months
Dry Film Thickness	50 µm - 60 µm
Dry Heat Resistance	Maximum temperature 100 °C. The product maintains its chemical properties up to a temperature of 100 °C, but from 60°C, color and gloss variations in the paint may occur.
Theoretical Coverage	17,82 m ² /l without dilution at a dry film thickness of 55 µm. Loss factors during application are not considered.

DRYING

Drying	<hr/>		
	10 °C	25 °C	35 °C
Touch	4 hours	3 hours	2 hours
Manipulation	8 hours	6 hours	5 hours
Final	216 hours	168 hours	144 hours
Recoat Drying	<hr/>		
	10 °C	25 °C	35 °C
Minimum	10 hours	6 hours	4 hours
Maximum	36 hours	24 hours	16 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.

Concrete Surfaces

Before painting, the concrete must have a maximum residual moisture of 6%.

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 more information, consult the Concrete Surface Preparation and Application Manual.

Coatings should not be applied over floors contaminated with oils or aggressive products. The floor must be effectively cleaned. Applying over residues of these contaminants may cause coating detachment and other failures.

Acid treatment: recommended for ground-level floors and walls if no infiltration risk exists, as acid attack on rebar may compromise mechanical strength and structural safety. Follow product technical bulletins or applicator instructions when using this method.

Scarification (milling) for moderate system: this method is an excellent option for repairing and restoring damaged surfaces, suitable for both light and heavy work. Recommended for cutting anti-slip grooves, removing contaminated surface layers like grease, oil, rubber, synthetic pavements, paints, traffic marking stripes, among other floor applications. The mill consists of a motor rotating a tool/disc drum with widea (tungsten carbide), which chisels and wears the floor surface. Depth depends on disc type and shape used on the mill shaft.

Respect the recoat interval between product coats for applying the subsequent coat. If the maximum recoat interval is exceeded, execute a light manual/mechanical sanding to break the gloss of the previous coat, followed by dust and residue cleaning, ensuring better adhesion between paint layers.

Surface preparation must be performed in accordance with SSPC SP-13/NACE No. 6, ICRI Technical Guidance No. 03732, and compared with the visual standard expressed as CSP 1 to 10.

Coating on old concrete only upon recommendation from WEG Technical Department.

Product application must follow guidance from our technical department to achieve the expected performance. Factors such as surface condition, roughness, contaminant level, and other specifics are essential for proper surface preparation.

Manual and rotary hammer grinders: these machines work with motors with 1 or 2 multi-purpose discs (3 stones or diamond inserts per disc). Depending on floor hardness, carborundum or widea (tungsten carbide) inserts can be used.

The performance of this product is associated with surface preparation. The surface must be clean, solid, free of any contaminants, fully dry, and have sufficient roughness to allow adhesion of the applied protection system.

Check for moisture in concrete according to ASTM D 4263.

Captive blast with centrifugal turbines: process with centrifugal blast/turbines, using steel shot in a closed circuit.

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 volume: 1 A x 1 B.
Thinner	Not applicable.
Dilution	Ready to use.
Pot Life	25 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

Conventional Spray Gun	Spray gun: JGA 502/3 Devilbiss or equivalent Fluid nozzle: EX Air cap: 704 Atomization pressure: 50 - 70 psi Tank pressure: 10 - 20 psi.
Airless Spray Gun	Airless: Use minimum pump 60:1 Fluid pressure: 1500 - 2500 psi Hose: 1/4" inner diameter.
Roller	Use velvet wool roller adhered to the tube by hot fusion without adhesives, reference 329/5 (5 mm pile wool), or made with polyamide fibers adhered to the tube by thermal fusion without adhesives, reference 321/10 (10 mm pile). Reference information (consult WEG Technical Department for more information). For application with brush and/or roller, it may be necessary to apply two or more coats to achieve a uniform layer and the recommended film thickness.
Brush	Recommended only for small area touch-ups or "stripe coat" (screws, nuts, weld beads, sharp corners, and touch-ups).
Cleaning of the equipments:	Not applicable.
Notes	The data presented serves as a guide and similar equipment may be used. 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.

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.

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

During the initial curing (first 24 hours), humidity must not exceed 70%, otherwise the visual appearance may be compromised.

For optimal application properties, the paint temperature should be between 21°C and 27°C before mixing and application.

Excess film thickness may cause blistering in the dry film. Light sanding before subsequent coats is recommended to remove defects and smooth the surface.

Variations in appearance, roughness, and absorption of concrete floors, associated with roller application, may result in higher sealer varnish consumption.

Painting is recommended only if surface temperature is at least 3°C 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 at temperatures below 10°C, consult the WEG Technical Department.

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

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

Epoxy-based products are known for their excellent anticorrosive properties and low resistance to sun exposure. When the applied film is exposed to weathering, over time it will lose gloss, a phenomenon known as chalking, which consequently alters its color. It is important to note that, despite 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.

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