

**W-POLI HSS 46**

**PRODUCT DESCRIPTION**

Two-component aliphatic functional amine varnish, solvent-free. Sealer to promote adhesion on concrete and cement-asbestos surfaces, 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**

<b>Component A</b>	3.6L Package containing 2.26L
<b>Component B</b>	1.5L Package containing 1.34L

**CHARACTERISTICS**

<b>Color</b>	Colorless.
<b>Gloss</b>	Gloss
<b>Volume Solids</b>	98 ± 2% (ISO 3233)
<b>Shelf Life</b>	24 months
<b>Dry Film Thickness</b>	50 µm - 60 µm
<b>Dry Heat Resistance</b>	Maximum temperature 120 °C. The product maintains its chemical properties up to a temperature of 120 °C, but from 60°C, color and gloss variations in the paint may occur.
<b>Theoretical Coverage</b>	16,33 m <sup>2</sup> /l without dilution at a dry film thickness of 60 µm. Loss factors during application are not considered.

**DRYING**

<b>Drying</b>			
	<b>0 °C</b>	<b>15 °C</b>	<b>25 °C</b>
<b>Touch</b>	30 min	1 hour	90 min
<b>Manipulation</b>	4 hours	3 hours	2 hours
<b>Final</b>	168 hours	168 hours	168 hours
<b>Recoat Drying</b>			
	<b>0 °C</b>	<b>15 °C</b>	<b>25 °C</b>
<b>Minimum</b>	4 hours	3 hours	2 hours
<b>Maximum</b>	8 hours	6 hours	6 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 must be clean, dry, and free of contaminants. Completely remove oils, greases, and fats according to SSPC-SP1.

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.

**Maintenance and Repair**

NOTE: Respect the recoating interval for subsequent coat application. If exceeded, perform light manual/mechanical sanding to break the previous coat gloss, followed by dust and residue cleaning



to ensure better adhesion between paint layers.

**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.

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

**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 weight: 100 A x 63 B.
<b>Thinner</b>	Not applicable.
<b>Dilution</b>	Ready to use.
<b>Notes</b>	In locations with higher temperature and relative humidity, the pot life of the mixture will be reduced.
<b>Pot Life</b>	10 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.
<b>Induction Time</b>	Wait 10 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: 60 - 65 psi Tank pressure: 10 - 20 psi.
<b>Airless Spray Gun</b>	Airless: Use minimum pump 60:1 Fluid pressure: 2000 - 3000 psi Hose: 1/4" inner diameter Nozzle: 0.013" - 0.017".
<b>Roller</b>	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.
<b>Brush</b>	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.  
 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.  
 Clean all equipment immediately after use.

**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.

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

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.

**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.

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