

W-POLI LEP 45

PRODUCT DESCRIPTION

Two-component polyurethane topcoat. High solids, extra-fast drying. Provides excellent barrier protection, abrasion resistance, impact resistance, surface hardness, and impermeability.

RECOMMENDED USE

Recommended for wind turbine blades, in the leading edge regions.

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 0.84 US gal
Component B	0.24 US gal Package containing 0.24 US gal

CHARACTERISTICS

Color	White. Gray. Red.
Gloss	Semi-Matte
VOC content	0.18 lb/gal
Volume Solids	99 ± 1% (ISO 3233)
Shelf Life	24 months
Dry Film Thickness	9.8 mils - 11.8 mils
Theoretical Coverage	146.7 ft ² /gal without dilution at a dry film thickness of 10.8 mils. Loss factors during application are not considered.

DRYING

Drying

	50 °F	77 °F	95 °F
Final	216 hours	168 hours	144 hours

Recoat Drying

	50 °F	77 °F	95 °F
Minimum	60 min	40 min	30 min
Maximum	120 min	90 min	70 min

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. Soluble salts must be removed by washing with plenty of fresh water.

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.

Sanding

For fiber surfaces: sand and remove dust and impurities. For fillers or metal surfaces: sand until complete gloss removal, followed by cleaning dust and other impurities.

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 29 B.
Thinner	Not applicable.
Alternative Thinners	PU Thinner 5003 - Recommended for temperatures below 77°F. PU Thinner 5007 - Recommended for temperatures above 95°F and oven drying. PU Thinner 5004 - Recommended for temperatures between 77-95°F.
Dilution	Ready to use.
Pot Life	20 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.

APPLICATION METHODS

Roller	Use a short-haired, seamless wool or synthetic roller for epoxy paints.
Cleaning of the equipments:	Not applicable.
Notes	The data presented serves as a guide and similar equipment may be used. Before application, ensure that the equipment and respective components are clean and in optimal condition.

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.

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

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.

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

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.

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.