

W-POLI RLA 45

PRODUCT DESCRIPTION

Polyaspartic topcoat with antimicrobial additives. High solids, excellent color and gloss retention, extra-fast drying.

RECOMMENDED USE

Recommended for wind turbine blades. Can be applied in a single thick coat, directly over fiberglass or specific primer (W-POLI HSM452 Putty and W-POLI HSM 452 Pore Filler).

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 5.4kg 20L Package containing 23.52kg
Component B	0.9L Package containing 1.03kg 5L Package containing 4.52kg

CHARACTERISTICS

Color	According to customer standard. RAL and Munsell chart.
Gloss	Ultra-Matte
VOC content	337.12 g/l
Volume Solids	66 ± 2% (ISO 3233)
Shelf Life	24 months
Dry Film Thickness	80 µm - 120 µm
Dry Heat Resistance	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.
Theoretical Coverage	6,60 m ² /l without dilution at a dry film thickness of 100 µm. Loss factors during application are not considered.

DRYING

Drying

	20 °C	25 °C	35 °C
Touch	30 min	25 min	20 min
Manipulation	80 min	60 min	50 min
Final	216 hours	168 hours	144 hours

Recoat Drying

	20 °C	25 °C	35 °C
Minimum	80 min	60 min	50 min
Maximum	-	-	-

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.

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.

Fiber Surfaces

Proceed with sanding until all gloss is removed. Clean the surface again with cloths soaked in solvent, changing them frequently to remove dust and residues from sanding.

APPLICATION PREPARATION

Mixing	Homogenize the component content with a spatula. Ensure no pigment remains at the bottom of the container. Add component B to component A respecting the mixing ratio. Mix thoroughly with the spatula.												
Mixing Ratio	By volume: 4 A x 1 B.												
Thinner	PU DILUENT 5003												
Alternative Thinners	PU 5007 Diluent - Recommended for temperatures above 20°C.												
Dilution	Depending on the application method, dilute to a maximum of 15%.												
Notes	The amount of Diluent may vary depending on the type of equipment used and environmental conditions during application. Only add Diluent after complete mixing of the other components. Do not dilute with solvents not allowed by local legislation, and do not exceed the indicated dilution percentage. Excessive dilution may affect film formation, appearance, and make it difficult to achieve the specified thickness.												
Pot Life	45 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.												
EXOTHERMIC PEAK	<table> <tr> <th>Time (min)</th><th>Temperature (°C)</th></tr> <tr> <td>15</td><td>30</td></tr> <tr> <td>30</td><td>31</td></tr> <tr> <td>45</td><td>33</td></tr> <tr> <td>55</td><td>34</td></tr> <tr> <td>70</td><td>35</td></tr> </table>	Time (min)	Temperature (°C)	15	30	30	31	45	33	55	34	70	35
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70	35												
Induction Time	No induction time required. In very hot locations, we recommend consulting WEG's Technical Department.												

APPLICATION METHODS

Roller	For better product performance, we recommend application with Super Flock roller or similar.
Cleaning of the equipments:	PU DILUENT 5003
Notes	The data presented serves as a guide and similar equipment may be used. 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. 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.

Light colors may require more than one coat to achieve uniform coverage.

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

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

Before application, observe weather conditions: there must be no threat of rain or drizzle. Surface temperature must be at least 3°C above the dew point, and relative humidity should not exceed 85%. Adverse conditions may cause color variations and other characteristics. Consult WEG Technical Department.

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.

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.

Under adverse weather conditions in indoor and/or outdoor environments with high relative humidity, rain or drizzle, low or very low temperatures, and excessively high temperatures, variations in color and other product characteristics may occur. Please consult WEG's Technical Department for more information.

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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