



LACKTHANE N 2677 ALUMINUM PETROBRAS 0170

PRODUCT DESCRIPTION

Three-component, high-solids aluminum-pigmented aliphatic acrylic polyurethane topcoat. Provides anticorrosive protection, waterproofing, chemical resistance and continuous weather resistance.

RECOMMENDED USE

The product provides a high-gloss, chemically resistant finish, widely used for painting equipment in aggressive industrial environments where both durability and aesthetics are required. When combined with primer and/or epoxy intermediates, it provides a highly durable system. The aliphatic acrylic polyurethane system is widely used in chemical, petrochemical, pulp and paper, sugar and ethanol, transportation industries, among others.

CERTIFICATIONS AND APPROVALS

Complies with Petrobras Standard N 2677.

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 2.64L 20L Package containing 14.65L
Component B	0.9L Package containing 0.6L 3.6L Package containing 3.35L
Component C	0.9L Package containing 0.53kg 3.6#L package containing 2.94#kg.

CHARACTERISTICS

Color	Aluminum.
Gloss	Metallic
VOC content	568.88 g/l
Volume Solids	52 ± 2% (N 1358)
Shelf Life	24 months
Dry Film Thickness	60 µm - 70 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	without dilution at a dry film thickness of 65 µm. Loss factors during application are not considered.

DRYING

Drying		10 °C	25 °C	35 °C	45 °C	55 °C	65 °C
Touch		8 hours	4 hours	3 hours	1 hour	30 min	20 min
Manipulation		16 hours	8 hours	6 hours	3 hours	1 hour	45 min
Final		300 hours	168 hours	168 hours	168 hours	168 hours	168 hours
Recoat Drying		10 °C	25 °C	35 °C	45 °C	55 °C	65 °C
Minimum		12 hours	8 hours	5 hours	4 hours	3 hours	3 hours
Maximum		48 hours	48 hours	48 hours	36 hours	30 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 must be clean, dry, and free of contaminants. Completely remove oils, greases, and fats according to SSPC-SP1.

Over Primer

The product must be applied over a specific primer. The primer must be clean, dry, and free of contaminants. The topcoat must be applied within the primer recoat interval. Consult the primer technical bulletin for correct application.

Respect the product recoat interval. If exceeded, perform light manual/mechanical sanding to break gloss and clean dust/residues for better adhesion between coats.

APPLICATION PREPARATION

Mixing	<p>Homogenize the content of component A using mechanical or pneumatic stirring. Ensure no sediment remains at the bottom of the container. Gradually add component A to component C. Homogenize slowly using manual or pneumatic stirring until a smooth, lump-free mixture is obtained. Then add component B. Repeat the homogenization process. The indicated mixing proportion for paint preparation must be respected. If necessary, filter through a 60-mesh screen.</p> <p>For the aluminum version, manual homogenization is recommended as per N-13, with the option of light pneumatic stirring if necessary, avoiding changes in color and/or metallic effect.</p>
Mixing Ratio	By volume: 4.5 A x 1 B x 0.5 C.
Alternative Thinners	<p>PU 5003 Diluent - Recommended for temperatures below 25 °C.</p> <p>PU 5007 Diluent - Recommended for temperatures above 35 °C and baking cure.</p> <p>PU 5004 Diluent - Recommended for temperatures between 25°C and 35°C.</p>
Dilution	Depending on the application method, dilute to a maximum of 15%.
Notes	<p>Do not dilute with solvents that are not allowed by local regulations, and do not exceed the indicated dilution percentage.</p> <p>Only add the thinner after the complete mixing of components A + B + C.</p> <p>The amount of thinner may vary depending on the type of equipment used and the environmental conditions during application.</p> <p>Excessive dilution of the paint may affect film formation, appearance, and make it difficult to achieve the specified thickness.</p>
Pot Life	<p>2 h</p> <p>The shelf life of the mixture is reduced as the ambient temperature increases.</p> <p>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.</p>
Induction Time	<p>No induction time required.</p> <p>In very hot locations, we recommend consulting WEG's Technical Department.</p>

APPLICATION METHODS

Conventional Spray Gun	<p>Spray gun: JGA 502/3 Devilbiss or equivalent</p> <p>Fluid nozzle: EX</p> <p>Air cap: 704</p>
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	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: 3/8" inner diameter Nozzle: 0.015" - 0.021".
Roller	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. Use a short-haired, seamless wool or synthetic roller.
Brush	Recommended only for small area touch-ups or "stripe coat" (screws, nuts, weld beads, sharp corners, and touch-ups).
Notes	<p>The data presented serves as a guide and similar equipment may be used.</p> <p>Changes in pressures and nozzle sizes may be necessary to improve spraying characteristics. Purge the compressed air line to avoid paint contamination.</p> <p>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.</p> <p>Before application, ensure that the equipment and respective components are clean and in optimal condition.</p> <p>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.</p> <p>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.</p> <p>Reinforce all sharp corners, gaps, and weld beads with a brush to avoid premature failures in these areas.</p> <p>Clean all equipment immediately after use.</p> <p>It is considered good practice to periodically wash the spraying equipment during the day. The cleaning frequency depends on the amount sprayed, temperature, and elapsed time, including all delays.</p>

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.

Polyurethane systems (components A, B, and C) are sensitive to ambient relative humidity, which may cause defects in the dry film and reduce pot-life. After use, keep containers closed and protected.

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.

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.

SYSTEM COMPATIBILITY AND MAINTENANCE REPAINTING

The primer repainting interval must be respected for the application of the topcoat. If the maximum interval indicated is exceeded, manual/mechanical sanding with sandpaper to remove gloss is necessary. The primer surface must be dry and free of contaminants.

In situations where the nature of the primer is unknown, it is recommended to test the product's compatibility on a small area; it must be ensured that the original material is well adhered. All non-adhered paint must be removed; areas with corrosion or applications over aged paints must be treated according to technical guidance.

Direct application of the product over zinc-rich primers based on ethyl silicate, alkyd primers, coal tar-based paints, and other single-component primers is not recommended. When topcoat application over any of the above primers is required, we recommend applying a suitable intermediate product.

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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