Coatings
Solutions for Machines and Equipments
Each market segment has its specific characteristics. We understand this as nobody. For Machines and Equipments, WEG has developed the following lines:

### Liquid Coatings
- W-LACK (alkydls)
- W-POXI (epoxys)
- W-THANE (polyurethanes)
- W-TERM (heating chambers and high temperature)
- W-HIDRO (water-soluble)
- PETROBRAS STANDARDS (standardized)

### Powder Coating
- POLITHERM
- Epoxy System
- Hybrid System
- Polyester System
- NobaC (antimicrobial)
- W-Eco (free from heavy metals)
- W-Zn (rich in zinc)

### Painting Scheme for Machines and Equipments with Liquid Coatings

<table>
<thead>
<tr>
<th>Recommended Uses</th>
<th>Surface Preparation</th>
<th>Primer</th>
<th>Intermediary</th>
<th>Topcoat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheltered places; low relative humidity; distant from the seashore; without polluting industries.</td>
<td>Degreasing; Grinding; Phosphating</td>
<td>-</td>
<td>W-LACK CVD 121 40</td>
<td></td>
</tr>
<tr>
<td>Good chemical resistance and natural weathering. Recommended for marine environments without the presence of aggressive vapors. Not recommended for immersion services.</td>
<td>Jato Sa 2 ½</td>
<td>LACCPOXI N 2630 Petrobras 150</td>
<td>-</td>
<td>W-TERM HPA 501 50</td>
</tr>
<tr>
<td>Good chemical resistance and natural weathering. Recommended for marine environments without the presence of aggressive vapors. Not recommended for immersion services. Lower repainting interval.</td>
<td>Jato Sa 2 ½</td>
<td>W-POXI MCP 300 150</td>
<td>-</td>
<td>WEGTHANE HIDRO 501</td>
</tr>
<tr>
<td>Recommended for aggressive environments and exposure to temperatures of 550°C / 1022°F.</td>
<td>Jato Sa 2 ½</td>
<td>WEGZINC 401 30</td>
<td>-</td>
<td>W-TERM HPA 680 Alumínio 600°C</td>
</tr>
<tr>
<td>Saline / marine environments that require high chemical resistance and excellent resistance to weathering. Not recommended for direct exposure or immersion in strong acids and solvents.</td>
<td>Jato Sa 2 ½</td>
<td>Etil silicato de Zinco N 1661 Petrobras 75</td>
<td>LACCPOXI N2630 Petrobras 120</td>
<td>W-TERM N 2677 Petrobras 60</td>
</tr>
<tr>
<td>Recommended for exposure temperature from 600°C /1112°F.</td>
<td>Desengrase / Lixamento</td>
<td>-</td>
<td>-</td>
<td>W-TERM CVA 660 Alumínio 600°C</td>
</tr>
<tr>
<td>Rural and industrial environments. Not recommended for direct exposure of strong acids, solvents or wheatering. Accepts directly application over galvanized steel.</td>
<td>Jato Sa 2 ½</td>
<td>Manual/Mechanical Treat.</td>
<td>-</td>
<td>W-TERM SRD 501 75</td>
</tr>
<tr>
<td>Rural and industrial environments. Not recommended for direct exposure of strong acids, solvents or wheatering.</td>
<td>Jato Sa 2 ½</td>
<td>Manual/Mechanical Treat.</td>
<td>-</td>
<td>WEGPOXI CVD 322 150</td>
</tr>
<tr>
<td>Adherence base for non-ferrous metals; aluminum and galvanized steel; exposure to weathering.</td>
<td>Jato Sa 1; lixamento</td>
<td>W-POXI CVE 355 25</td>
<td>-</td>
<td>Conforme condição de agressividade, consulte depto. técnico</td>
</tr>
<tr>
<td>Sheltered places in chemical industries. Environments with continuous exposure to alkaline or acid solutions.</td>
<td>Jato Sa 2 ½</td>
<td>WEG FENOXI 150</td>
<td>-</td>
<td>WEG FENOXI 150</td>
</tr>
<tr>
<td>Good corrosion resistance and natural weathering. Recommended for environments without the presence of aggressive vapors. Recommending when you want agility in the painting process (drying of primer overcoat: wet on wet)</td>
<td>Jato Sa 2 ½</td>
<td>W-POXI UUP 415 50</td>
<td>-</td>
<td>W-THANE SRD 501 50-75</td>
</tr>
<tr>
<td>Good corrosion resistance and natural weathering. Recommended for environments without the presence of aggressive vapors and exposed to contact with radiating sources of heat or flame</td>
<td>Jato Sa 2 ½</td>
<td>W-POXI FRD 321 150</td>
<td>-</td>
<td>W-THANE FRA 501 50</td>
</tr>
<tr>
<td>Good corrosion resistance and natural weathering. Recommended for marine environments without the presence of aggressive vapors. Not recommended for immersion services.</td>
<td>Jato Sa 2 ½</td>
<td>W-POXI HIDRO ERP 303 150</td>
<td>-</td>
<td>WEGTHANE HIDRO HPA 501 50</td>
</tr>
<tr>
<td>Highly aggressive industrial environments with chemical vapors up to 150°C / 302°F. Maintenance painting.</td>
<td>Jato Sa 2 ½</td>
<td>-</td>
<td>-</td>
<td>WEGPOXI BLOCK N 2192 Tipo II 450</td>
</tr>
<tr>
<td>Highly aggressive industrial environments with chemical vapors up to 150°C / 302°F. Maintenance painting.</td>
<td>Jato Sa 2 ½</td>
<td>-</td>
<td>WEGPOXI BLOCK HPP 402 Alumínio 125</td>
<td>LACCPOXI N 2628 200</td>
</tr>
</tbody>
</table>

*Dry layer thickness in micrometers (μm).*
### Painting Scheme for Machines and Equipments with Powder Coatings

<table>
<thead>
<tr>
<th>Recommended Uses</th>
<th>Surface Preparation</th>
<th>Painting Finishing</th>
<th>Layer Thickness (µm) **</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal non-aggressive internal environments</td>
<td></td>
<td>POLITHERM 20 / POLITHERM 22</td>
<td></td>
</tr>
<tr>
<td>Internal environments where high physical and chemical resistance is required</td>
<td></td>
<td>POLITHERM 24 / POLITHERM 25</td>
<td></td>
</tr>
<tr>
<td>External environments where good resistance to weathering or internal environments</td>
<td>Phosphatization for ferrous metals and chromatization for non-ferrous metals</td>
<td>POLITHERM 26 / POLITHERM 27</td>
<td>50-80 (for smooth)</td>
</tr>
<tr>
<td>where resistance to yellowing by heat is required</td>
<td></td>
<td>POLITHERM 46</td>
<td>70-90 (for textured)</td>
</tr>
<tr>
<td>External environments where high resistance to weathering is required in addition</td>
<td></td>
<td>POLITHERM 20 ANTICHAMA</td>
<td></td>
</tr>
<tr>
<td>to superior retention of brightness and color</td>
<td></td>
<td>W-POXI 24 W-ZN</td>
<td></td>
</tr>
<tr>
<td>Normal non-aggressive internal environments subject to radiating sources of heat</td>
<td>Zinc or tricatonic phosphate or blasting with steel shot for non-ferrous metals</td>
<td>POLITHERM 26 W-ZN</td>
<td></td>
</tr>
<tr>
<td>or flame</td>
<td></td>
<td>DU POLITHERM 46</td>
<td></td>
</tr>
<tr>
<td>External environments where high corrosion protection is required</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:** In the case of the need of paints with total exemption of heavy metals we suggest the products of the line W-ECO.

*In the case of the use of metallized coatings it is recommended to use a layer of Politherm Varnish as a topcoat.

**Larger layers may be required for full coverage, depending on the coating color.

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### New Technologies

**ANTI-FLAME COATINGS**

New products were developed by WEG for the special coating segment: the Powder coating POLITHERM 20 LI ANTICHAMA BRANCO SB, the liquid coating primer and epoxy topcoat W-POXI FRD 313 and liquid topcoat coating W-THANE FRA 501. The three products have been developed with the latest technology and special raw materials that offer anti-corrosion protection and aesthetic finish, anti-flame protection, inhibiting the propagation of fire in the event of fire or excess heat on hot surfaces or radiating sources of heat.

Suitable for painting structures, fire doors, panels, appliances and other metallic items used in public, residential and industrial environments. The products of the antichama family presented good results in tests according to international standards BS 476 Part 7 and DIN 4102 - B2 in the question flame propagation.

#### WEGPOXI BLOCK HPP 402

- Bicomponent Novolac Epoxy Primer of high thickness and high solids that combines the cathodic protection of the pigments and anticorrosive agents to the chemical resistance and thermal stability of novolac resin. It has excellent chemical and anticorrosive resistance. **Its high adhesion makes it ideal for maintenance paints where it is not possible to use abrasive blasting.**

#### WEGTHANE HIDRO HPA 501

- Water-soluble polyurethane finishing paint with high gloss indicated for industrial applications and maintenance where chemical and weathering resistance are required. Reduced environmental impact compared to conventional products. It provides higher productivity due to its faster drying compared to polyurethanes solvent base.

#### W-POXI UUP 415

- Conventional bicomponent epoxy primer with zinc phosphate pigmentation. Quick drying, repainting drying wet on wet, excellent anticorrosive protection, flexibility and hardener.
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