Coatings
Solutions for Marine and Offshore
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WEG Tintas has a complete line of anticorrosive and antifouling products for the most varied applications in the Maritime and Offshore segment. Our product line ranges from a Shop Primer of temporary protection for steel plate to high performance antifouling with durability of up to 5 years without stopping for maintenance.

In this material, we shall present the following painting products and plans.

- **Tanks**
  - Primer and epoxy finishing

- **Deck**
  - Epoxy primer + Epoxy Antiskid

- **Deckhouse**
  - Epoxy primer + Polyurethane Finishing

- **Side above the waterline**
  - Epoxy primer + Polyurethane Finishing

- **External side below the waterline**
  - Epoxy primer + Sealer + Antifouling

**Shop Primer**
Indicated for application on steel plate before construction, being able to be maintained as primer.

**WEGZINC 401**

**DESCRIPTION OF THE PRODUCT:** Shop primer of zinc ethyl silicate, bicomponent, with excellent anticorrosive protection. **It does not interfere in the gas cutting and welding process.** Certified by DNV and Lloyd’s Register for shop primer resistant to weldability type tests.

**RECOMMENDATIONS OF USE:** Particularly developed for protection of steel during construction and assembly in new works. Used when speed is required in the welding process. It grants protection for up to 6 months.
WEG TIE COAT
DESCRIPTION OF THE PRODUCT: Intermediary bicomponent polyamide epoxy paint, free of coal tar. High performance anticorrosive coating for use below the waterline.

RECOMMENDATIONS OF USE: Sealing paint, intermediary, indicated to ensure the adherence between the primer and antifouling or finishing. Besides ensuring the adherence between the systems, the WEG TIE COAT provides a complementary coat which increases even further the anticorrosive protection. It can be used in new works, maintenance and repair.

WEGPOXI CVI 323

RECOMMENDATIONS OF USE: Indicated for use as primer for protection of blasted steel before the application of a wide range of products. It can also be used as intermediary for application in zinc primers recently applied to prevent forming of zinc salts after exposure to bad weather and to reduce porosity in ensuing coats.

W-POXI BLOCK ADA 404
DESCRIPTION OF THE PRODUCT: Novolac bicomponent epoxy primer of great thickness, high solids, with antiskid function, great hardness, resistant to water, oils and salts providing a film of high texture and consequently antiskid. Extremely low solvent content (LOW VOC), besides great resistance to abrasion and impact, it also provides incomparable anticorrosive protection, having excellent surface hardness and impermeability.

RECOMMENDATIONS OF USE: Used on industrial floors, ladders, catwalks, ramps, heliports and ship decks. In offshore, it can be used on decks, natural gas and oil-drilling rigs.

W-POXI DRD 331
DESCRIPTION OF THE PRODUCT: Epoxy finishing primer of high solids, bicomponent, with anticorrosive pigmentation, resistant to abrasion. It has excellent adherence to carbon steel treated by abrasive blasting or mechanical cleaning. It can be applied on aging but firmly adhering paint.

RECOMMENDATIONS OF USE: Indicated for painting metallic structures, cargo holds, decks, deck accessories, sides. Recommended for new works, maintenance and repair. It allows addition of aggregate*, allowing use as antiskid paint.

*Aggregate is not supplied by WEG Tintas
Epoxy Primers of the WET Surface Family

**WEGPOXI WET SURFACE 89 PW**
**DESCRIPTION OF THE PRODUCT:** Product tolerant to surfaces: applicable on substrata of dry blasted steel, wet, hydroblasted, and with **manual or mechanical** treatment. It offers excellent anticorrosive protection in several aggressive environments as decks and sides. It is also available in the aluminum version, providing greater anticorrosive protection per barrier.

**RECOMMENDATIONS OF USE:** It has certification for contact with drinking water (in white and aluminum).

**LACKPOXI 76 WET SURFACE N 2680**
**DESCRIPTION OF THE PRODUCT:** Product **without solvent** developed for application on surfaces prepared by abrasive blasting and hydroblasted. Tolerant to wet surfaces. It has certification for contact with food (drinking water, alcohol, fatty food, grain, etc.). It complies with Petrobras N2680 Standard. IMO PSPC certificate for application on ballast tanks.

**RECOMMENDATIONS OF USE:** Ballast and fuel tanks, decks, natural gas and oil-drilling rigs, machinery on board, piping, etc.

**IMO INTERNATIONAL MARITIME ORGANIZATION**

Epoxy Primer and Finishing with Glass Flakes

**WEGPOXI BLOCK GFD 362**
**DESCRIPTION OF THE PRODUCT:** Two component polyamine Novolac epoxy, high-thickness and high solids. Formulated with glass flakes that provide excellent barrier protection, excellent surface hardness, impermeability as well as great resistance to abrasion and impact.

**RECOMMENDATIONS OF USE:** It can be applied in high layers (500 to 1000 μm dry thickness) in a single coat, simplifying some painting processes. It complies with Petrobras N 1374 Standard (ISO 20340) for C5-M and Im2 conditions.

Epoxy Primer Rich in Zinc

**W-POXI ZSP 315 N 1277**
**DESCRIPTION OF THE PRODUCT:** Bicomponent polyamide epoxy primer rich in zinc. The product offers anticorrosive protection to carbon steel. It has quick drying, increasing productivity. **Attends Petrobras Standard N 1277.**

**RECOMMENDATIONS OF USE:** Cathodic Protection for structures and equipment subject to highly aggressive environments.

Tar Free Epoxy Primer

**WEG TAR FREE 712 N 2851**
**DESCRIPTION OF THE PRODUCT:** High performance **tar free** anticorrosive coating for use above and below the waterline, applicable in one of two coats of great thickness. **It complies with Petrobras N 2851 Standard.**
### Comparative Table of Anticorrosive Coatings

<table>
<thead>
<tr>
<th>Features</th>
<th>LACKPOXI 76 WET SURFACE N 2680</th>
<th>WEG TAR FREE 712 N 2851</th>
<th>WEGPOXI WET SURFACE 88 HT</th>
<th>WEGPOXI WET SURFACE 89 PW</th>
<th>WEGPOXI BLOCK GFD 362</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC Content (g/l)</td>
<td>Without solvent</td>
<td>250</td>
<td>190</td>
<td>190</td>
<td>150</td>
</tr>
<tr>
<td>Solids per Volume (%)</td>
<td>-----*</td>
<td>72</td>
<td>85</td>
<td>83</td>
<td>84</td>
</tr>
<tr>
<td>Thickness per coat typically applied (micrometers dry)</td>
<td>150</td>
<td>270</td>
<td>375</td>
<td>225</td>
<td>750</td>
</tr>
<tr>
<td>Useful life of mixture (hours at 25°C)</td>
<td>3</td>
<td>5</td>
<td>1.5</td>
<td>4</td>
<td>1.5</td>
</tr>
<tr>
<td>Repainting Interval</td>
<td>12 h - 5 days</td>
<td>6 h - 28 days</td>
<td>8 h - 7 days</td>
<td>18 h - 15 days</td>
<td>8 h - 5 days</td>
</tr>
<tr>
<td>Application Method</td>
<td>Airless spray gun, roller and wide brush</td>
<td>Conventional spray gun, airless spray gun, roller and wide brush</td>
<td>Conventional spray gun, airless spray gun, roller and wide brush</td>
<td>Conventional spray gun, airless spray gun, roller and wide brush</td>
<td>Airless spray gun, roller and brush</td>
</tr>
<tr>
<td>Main Uses</td>
<td>Sides below and above the waterline, deckhouse, machines and equipment, ballast and drinking water tanks.</td>
<td>Sides below and above the waterline, deckhouse, machines and equipment, ballast.</td>
<td>Sides below and above the waterline, decks, machines and equipment, deckhouse, ballast and drinking water tanks.</td>
<td>Sides below and above the waterline, decks, deckhouse, ballast and drinking water tanks. Metallic structures in general in offshore structures. Ideal for renewal and repair services, even in condition of surface preparation using manual and/or mechanical tools.</td>
<td>In offshore, it can be used in decks, oil exploration platforms and natural gas, onboard machinery and pipelines.</td>
</tr>
</tbody>
</table>

*Consult the technical department WEG Coatings.

### Chimney Piping and Equipment

**W-TERM HPD 364**  
(TEMPERATURE UP TO 220°C / 428°F)  
**DESCRIPTION OF THE PRODUCT:** Two-component epoxy coating with excellent chemical and corrosion resistance are maintained when used at high temperatures.  
**RECOMMENDATIONS OF USE:** Indicated for aggressive environments providing good anticorrosive protection on steel, insulated or not. Used outside and inside chimneys which operate up to 220°C (428°F), etc.

**ETIL SILICATO ZINCO N 1661**  
(TEMPERATURE UP TO 500°C / 932°F)  
**DESCRIPTION OF THE PRODUCT:** Bicomponent inorganic zinc ethyl silicate. It complies with Petrobrás N 1661 Standard, offering galvanic anticorrosive protection to carbon steel.  
**RECOMMENDATIONS OF USE:** Indicated for protection of metallic structures, plate, bridges, containers, port cranes, equipment and external painting of piping, ducts and chimneys which operate at high temperatures.

**W-TERM CVP 655 ZINC 500°C**  
(TEMPERATURE OF 150°C / 302°F UP TO 500°C / 932°F)  
**DESCRIPTION OF THE PRODUCT:** Primer modified sicilone base pigmented with zinc poder.  
**RECOMMENDATIONS OF USE:** Indicated for paintinf of chimneys, furnaces, boilers, heat exchangers, piping or other equipment operating at temperatures between 150 °C and 500 °C which are used mechanical cleaning preparation grade St 3 or SSPC – SP3.

**W-TERM HPA 660 ALUMÍNIO**  
(TEMPERATURE FROM 150°C / 302°F UP TO 600°C / 1112°F)  
**DESCRIPTION OF THE PRODUCT:** Monocomponent finishing paint with modified silicone base, resistant to temperature of up to 600°C, being able to be applied directly on carbon steel or on zinc ethyl silicate for greater anticorrosive protection.  
**RECOMMENDATIONS OF USE:** Indicated for painting of chimneys, furnaces, boilers, heat exchangers, piping or other equipment operating at temperatures between 150°C and 600°C.
Promoter of Adherence for Galvanized Surfaces

**WEG FENÓXI**
**DESCRIPTION OF THE PRODUCT:** High thickness epoxy finishing, in two components with excellent chemical resistance including several solvents, excellent anticorrosive and abrasion resistance. It has certification for contact with drinking water and alcoholic food.

**RECOMMENDATIONS OF USE:** Indicated for highly aggressive environments, providing excellent anticorrosive protection on steel. Highly recommended for internal painting of tanks and for storage of water, drinking water and diesel oil.

**LACKPOXI N 2198**
**DESCRIPTION OF THE PRODUCT:** Bicomponent aliphatic isocyanate epoxy shop primer of low thickness.

**RECOMMENDATIONS OF USE:** Indicated as primer of adherence for non-ferrous metals, such as: aluminum, galvanized, copper, brass, stainless steel and also in non-metallic substrata as fiberglass.

**W-POXI GNP 415**
**DESCRIPTION OF THE PRODUCT:** Bicomponent epoxy primer without isocyanate and which provides excellent adherence, quick drying, reducing the total painting process time.

**RECOMMENDATIONS OF USE:** Indicated for painting surfaces of aluminum, galvanized steel, fiber and degreased steel.

Polyiurethane Finishing

**LACKTHANE N 2677**
**DESCRIPTION OF THE PRODUCT:** Bicomponent glossy aliphatic acrylic polyurethane finishing paint, of high solids per volume. Product developed to compose an anticorrosive protection system, high power of waterproofing, chemical resistance and resistance to natural bad weather. It complies with Petrobras N2677 Standard.

**RECOMMENDATIONS OF USE:** The product promotes a film of high gloss and chemical resistance, widely used in painting equipment in aggressive industrial environments, where resistance and esthetics are required.

**WEGTHANE HPA 501**
**DESCRIPTION OF THE PRODUCT:** Bicomponent gloss aliphatic acrylic polyurethane finishing paint, with excellent durability and prolonged repainting.

**RECOMMENDATIONS OF USE:** Indicated for painting in areas above the waterline, sides, deckhouses and in metallic structures, equipment on board and various machinery.
High Performance Antifouling Paints

Learn about the WEG ECOLOFLEX SPC LINE

W-ECOLOFLEX SPC was the first self polishing hydrolytic antifouling paint free of tin developed in the world. It contains a special copolymer developed with technology patented by Nippon Paint Marine Coatings. Its performance has been proven in more than 10,000 ships during an operating period of 59-61 months. WEG Tintas and Nippon consolidated a partnership signing a technological and commercial cooperation agreement in order to create a global supply network and increase the supplies of both companies.

WEG ANTIFOULING LINES

W-ECOLOFLEX HyB
The ECOLOFLEX HyB series was developed with the progressive technology patented by Nippon Paint of high performance of the silyl copper acrylate copolymer, which promotes a significant improvement in the predictability of the behavior of the antifouling paint from a more linear polishing rate and a low leached layer, ensuring the controlled release of the biocides throughout all the service time. The improvement in the reliability and predictability of the performance offered by the ECOLOFLEx HyB series is of vital importance so that the ship's speed is maintained without increasing fuel consumption. Furthermore, thanks to its high content of solids, the ECOLOFLEx HyB series has high yield, resulting in saving time and reducing costs in the application besides low emission of *VOCs into the atmosphere.

*VOC concerns the volatile organic compound that the paint has.

W-ECOLOFLEX SPC
The ECOLOFLEX SPC product lines are produced with self polishing technology (SPC - Self Polishing Copolymer) Nippon Paint. They are used in painting coastal boats, deep water ships and fixed rigs, with estimated durability of 36 to 60 months. The SPC HS version has greater yield with excellent performance.

W-ECOLOFLEX SPC HBR
The ECOLOFLEX SPC HBR is a hybrid feature product, a combination of copper acrylate copolymer base with synthetic resins, Applied in general boats that ensures excelente and long performance, 24 to 36 months of protection, providing greating save of fuel.
ARGENTINA
San Francisco - Cordoba
Phone: +54 3564 421484
info-ar@weg.net
Cordoba - Cordoba
Phone: +54 351 4641366
weg-morbe@weg.com.ar
Buenos Aires
Phone: +54 11 42998000
ventas@pulverlux.com.ar

AUSTRALIA
Scoresby - Victoria
Phone: +61 3 97654600
info-au@weg.net

AUSTRIA
Markt Piestling - Wiener Neustadt-Land
Phone: +43 2633 4040
watt@wattdrive.com

BELGIUM
Nivelles - Belgium
Phone: +32 67 888420
info-be@weg.net

BRAZIL
Jaragüá do Sul - Santa Catarina
Phone: +55 47 32764000
info-br@weg.net

CHILE
La Reina - Santiago
Phone: +56 2 27848900
info-cl@weg.net

CHINA
Nantong - Jiangsu
Phone: +86 513 85989333
info-cn@weg.net
Changzhou - Jiangsu
Phone: +86 519 88067692
info-cn@weg.net

COLOMBIA
San Cayetano - Bogota
Phone: +57 1 4160166
info-co@weg.net

ECUADOR
El Batan - Quito
Phone: +593 2 5144339
ceccato@weg.net

FRANCE
Saint-Quentin-Fallavier - Isère
Phone: +33 4 74991135
info-fr@weg.net

GERMANY
Tü流行的 - Kerpen
Phone: +49 2237 92910
info-de@weg.net
Balingen - Baden-Württemberg
Phone: +49 7433 90410
info-weg-antriebe.de
Homberg (Efze) - Hesse
Phone: +49 6861 99520
info-akw-antriebstechnik.de

GHANA
Accra
Phone: +233 30 2766490
info-ga@weg.net

INDIA
Bangalore - Karnataka
Phone: +91 80 41282007
info-in@weg.net

ITALY
Cinisello Balsamo - Milano
Phone: +39 2 6129335
info-it@weg.net

JAPAN
Yokohama - Kanagawa
Phone: +81 45 5503030
info-.jp@weg.net

MALAYSIA
Shah Alam - Selangor
Phone: +60 3 78591626
info@wattdrive.com.my

MEXICO
Huehuetoca - Mexico
Phone: +52 55 53214275
info-mx@weg.net
Tizayuca - Hidalgo
Phone: +52 77 97963790

NETHERLANDS
Oldenzaal - Overijssel
Phone: +31 541 571080
info-nl@weg.net

PERU
La Victoria - Lima
Phone: +51 1 2097600
info-pe@weg.net

PORTUGAL
Maia - Porto
Phone: +351 22 9477700
info-pt@weg.net

RUSSIA and CIS
Saint Petersburg
Phone: +7 812 363 2172
sales-wes@weg.net

SOUTH AFRICA
Johannesburg
Phone: +27 11 7236000
info@zest.co.za

SPAIN
Coslada - Madrid
Phone: +34 91 6553008
wegiberia@wegiberia.es

SINGAPORE
Singapore
Phone: +65 68589081
info-sg@weg.net
Singapore
Phone: +65 68622220
watteuro@watteuro.com.sg

UK
Redditch - Worcestershire
Phone: +44 1527 513800
info-uk@weg.net

UNITED ARAB EMIRATES
Jebel Ali - Dubai
Phone: +971 4 8130800
info-ae@weg.net

USA
Duluth - Georgia
Phone: +1 678 2492000
info-us@weg.net
Minneapolis - Minnesota
Phone: +1 612 3788000

VENEZUELA
Valencia - Carabobo
Phone: +58 241 8210582
info-ve@weg.net

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