

# SOLUTIONS FOR MARINE AND OFFSHORE

Industrial Motors

Commercial & Appliance Motors

Automation

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Energy

Transmission & Distribution

**Coatings**

Complete line of **anticorrosive** and **antifouling coatings**



Driving efficiency and sustainability



# Solutions for Marine and Offshore

Coatings for many different situations.

WEG offers a wide range of anticorrosive and antifouling products for a great variety of applications in the Marine and Offshore segment. WEG product line ranges from a shop primer for temporary protection of steel plates to high-performance and highly durable antifouling, without requiring maintenance interruptions.



Here, we will present the following products and painting schemes:



## SHOP PRIMERS FOR INITIAL PROTECTION OF STEEL PLATES

### WEGZINC 401

Bicomponent, zinc ethyl silicate shop primer with excellent anticorrosive protection. It does not interfere in the welding and gas cutting processes. Certified by DNV and Lloyd's Register for shop primer resistant to weldability type tests. Especially developed to protect steel during the manufacture and assembly of new structures. Used when you need a fast welding process. Provides protection for up to 6 months.



### LACKPOXI SHOP PRIMER

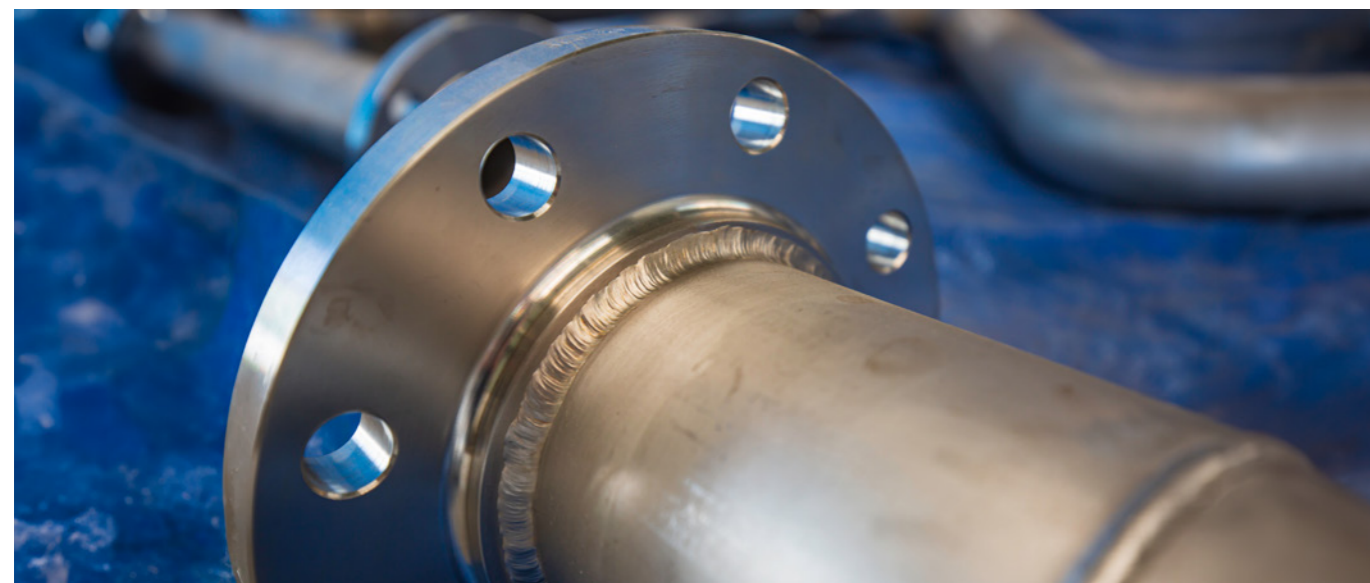
Bicomponent product based on polyamine and iron oxide. It stands out for its fast drying, good adhesion, simple application and high performance. This primer is specially formulated to meet the needs of shipyards and metallurgy companies. Highly recommended for the internal protection of tanks during the assembly/construction phase and as temporary protection.

## PRIMER FOR GALVANIZED STRUCTURES

The primer for galvanized structures is a fundamental component in the preparation and protection of galvanized steel surfaces. These primers are specifically formulated to effectively adhere to zinc plated surfaces, providing a solid base for the subsequent coating application.

### W-POXI GNP 415

Bicomponent isocyanate-free epoxy primer that provides excellent adhesion and fast drying, reducing the total time of the painting process. Recommended for painting aluminum, galvanized steel, fiber and degreased steel surfaces.



## PRIMERS AND INTERMEDIATE COATINGS

The application of primers and intermediate coatings play a vital role in painting materials for the Marine and Offshore industry. These coatings can offer anticorrosive protection, ensure proper adhesion between layers, prepare the surface for uniform application and resist adverse environmental conditions. In addition to extending the life span of structures, they reduce maintenance costs and guarantee the essential durability to face the corrosive challenges of marine and offshore environments.

### WEG TAR FREE 712 N 2851

Coating formulated with anticorrosive and tar-free pigments. It offers high-performance anticorrosive performance, being suitable for applications both above and below the waterline, and it can be applied in one or two high-build coats.

Recommended for maintenance and repair of vessels and coating of metal structures and piping. Certified as part of an approved painting scheme in accordance with Directive MED 2014/90/EU, the product complies with the strict tests established by IMO Resolution MSC 307 (88) – Annexes 2 and 5 and Petrobras Standard N 2851.

### WEG TIE COAT

Bicomponent, coal tar-free, polyamide epoxy intermediate coating. This coating is recommended for application above and below the waterline, allowing effective application in one or two high-build coats.

Recommended as an intermediate coating to ensure adhesion between the primer and antifouling or topcoat on vessels. WEG TIE COAT plays a crucial role in anticorrosive protection, since in addition to promoting adhesion between systems, this solution offers a complementary coat, further boosting corrosion resistance. Its versatility allows its use in new construction, maintenance and repairs, providing long-lasting and reliable protection.



### WEGPOXI CVI 323

Fast-drying Epoxy Holding Primer designed to protect steel and allow for repainting even after extended periods of

exposure to the elements. Ideal for protecting post-blasting steel. Used for maintenance, repairs and in new buildings.

It can be used as an intermediate coating before the application of various products, and when applied over zinc-rich primers, it reduces porosity, providing a better finish in subsequent coats and preventing the formation of zinc salts after exposure to the elements; it is also suitable for controlled cathode protection. Prequalified product according to Norsok M-501, Edition 6, System 7.



## ANTIFOULING TOPCOAT

The use of antifouling topcoats in the Marine and Offshore industry plays a crucial role in operational optimization and in the preservation of structures. These coatings prevent the growth of marine organisms on the hulls of ships and platforms, reducing the coefficient of friction and improving hydrodynamics, which reduces fuel consumption and extends the life span of the structures.

### W-ECOLOFLEX

W-ECOLOFLEX SPC was the first tin-free, self-polishing hydrolytic antifouling developed in the world. It contains a special copolymer developed with technology patented by Nippon Paint Marine. Its performance has been proven on more than 20,000 ships over an operating period of 59 to 61 months. WEG Coatings and Nippon consolidated a partnership by signing a technological and commercial cooperation agreement in order to create a global supply network and expand the supplies of both companies.



### W-ECOLOFLEX 150 HYB

The ECOLOFLEX HyB series was developed with the progressive technology patented by Nippon Paint of high performance copper silyl acrylate copolymer, which significantly improves the predictability of the antifouling coating behavior from a more linear polishing rate and a low leached layer, ensuring the controlled release of biocides throughout the entire service life. Improving the reliability and predictability of performance offered by the ECOLOFLEX HyB series is of vital importance so that the vessel speed is maintained without increasing fuel consumption. Additionally, thanks to its high solids content, the ECOLOFLEX HyB series offers high performance, resulting in time savings and reduced application costs, in addition to low emission of volatile organic compounds into the atmosphere.

### W-ECOLOFLEX SPC 200Z e 600

The ECOLOFLEX SPC product lines are produced with Nippon Paint self-polishing technology (SPC - Self Polishing Copolymer). They are used to paint coastal vessels, deep-sea ships and fixed platforms, with an estimated durability of 36 to 60 months.



### W-ECOLOFLEX SPC HBR

W-ECOLOFLEX SPC HBR is a product with a hybrid characteristic, a combination of copper acrylate copolymer with synthetic resins. Applied to vessels in general, it ensures excellent and long performance, between 24 and 36 months of protection, providing great fuel savings.

## POLYURETHANE TOPCOATS

### LACKTHANE N 2677

Glossy, high-solids, bicomponent aliphatic acrylic polyurethane topcoat. Product developed to compose an anticorrosive protection system with high sealing power, and chemical and weathering resistance. **It complies with Petrobras Standard N 2677.** USE RECOMMENDATIONS: The product provides a high gloss and chemically resistant film, widely used to paint equipment in aggressive industrial environments that require resistance and aesthetics.

### WEGTHANE HPA 501

Glossy, bicomponent aliphatic acrylic polyurethane top coat with excellent durability and extended repainting interval. USE RECOMMENDATIONS: Recommended for painting areas above the waterline, sides, superstructures and metal structures, on-board equipment and various machines.

## PAINTING OF BALLAST TANKS

The coating of ballast tanks plays a crucial role in the preservation and integrity of marine vessels, ensuring operational efficiency and preventing obstructions.

### WEGPOXI WET SURFACE 88 HT

High-performance product, applicable with thicknesses of up to 500 µm in a single coat, simplifying the painting processes. Its formulation includes anticorrosion pigmentation, ideal for protecting steel surfaces. Developed for application on dry, wet and hydroblasted surfaces.

Recommended for various applications, including ships, marine and offshore structures. It can be used in ballast and fuel tanks, decks, oil exploration platforms and onboard machinery. Furthermore, it is recommended for piles throughout their length and service structures subject to permanent immersion in fresh or salt water, especially in port facilities.

It complies with IMO resolution MSC.215 (82) for painting ballast tanks.

### LACKPOXI 76 WEG SURFACE N 2680

Organic solvent-free coating, formulated with nontoxic anticorrosive pigments, specially designed to protect carbon steel surfaces. Developed for application on surfaces prepared by abrasive blasting and hydroblasting, the versatility of this product allows its application to wet surfaces, complying with Petrobras Standard N 2680.

In marine and offshore environments, it is recommended for ships, ballast and fuel tanks, decks, oil and natural gas exploration platforms, onboard machinery, pipes, among others. In pipes, it stands out because it can be applied both inside and outside. This product complies with the requirements of ANVISA Resolution No. 105 for contact with non-acid aqueous foods, alcoholic foods, fatty foods and dry foods.



## STORAGE TANKS

Water and fuel storage tanks play an essential role in the Marine and Offshore industry, providing vital operational resources. Painting these tanks with suitable products not only protects against corrosion and wear, but it also preserves the quality of drinking water and the safety of fuel transportation. Suitable coatings resist the harsh conditions of the marine environment, ensuring the durability of tanks and minimizing the risks of leaks, corrosion and contamination.

### WEG FENOXI

Bicomponent, high-build, phenolic epoxy direct to metal that stands out for its excellent chemical resistance, covering a variety of solvents, in addition to showing remarkable resistance to corrosion and abrasion. This coating is specially formulated for highly aggressive environments, offering effective anticorrosive protection on steel surfaces. It is highly recommended for painting tanks inside, providing a robust and durable layer, ideal for storing water, drinking water, alcohol and diesel oil. Its composition guarantees top protection against corrosive agents, contributing to the preservation of the structural integrity and safety of operations in marine and offshore environments.



## ANTI-SLIP FOR DECKS

The use of anti-slip deck coatings plays a crucial role in marine and offshore safety, providing a grippy surface that reduces the risk of falls, especially in adverse conditions. In addition to preventing accidents, these coatings contribute to operational efficiency, allowing the crew to perform tasks safely, which makes them essential for the integrity of the vessel in challenging environments.

### W-POXI BLOCK ADA 404

Novolac high build and high solids epoxy coating that stands out for its anti-slip function, high hardness, remarkable resistance to abrasion, impact, water, oils and salts. Its performance offers effective anticorrosive protection, excellent surface hardness and impermeability.

It produces a high chemical resistance film, being versatile enough to be used in various applications, including industrial floors, stairs, walkways, ramps, heliports, vessel decks, oil and natural gas exploration platforms. Especially suitable for places where abrasion resistance is an essential requirement. It meets Petrobras Standard N 1374 and is certified as part of an approved painting scheme in accordance with the MED Directive 2014/90/EU, in accordance with the tests of IMO Resolution MSC 307 (88) – Annexes 2 and 5.



## PROTECTION FOR HOT SURFACES

Painting hot surfaces is important for preservation and operational efficiency. In offshore installations, subject to extreme weather conditions, the choice of suitable coatings is essential to protect structures against corrosion induced by saline environments and to maintain structural integrity. On hot surfaces in particular, such as chimneys and pipes, careful selection of coatings is essential to resist temperature variations, preventing early deterioration and ensuring the safe operation of these systems.

### W-TERM HPD 364

Bicomponent phenolic epoxy coating with excellent chemical and anticorrosive resistance, which is maintained when used at high temperatures. Suitable for aggressive environments, providing good corrosion protection over steel, whether insulated or not. Used inside and outside chimneys that operate up to 220 °C, it can be applied with surface temperatures of up to 100 °C.

### ETHYL SILICATE ZINC N 1661

Bicomponent, inorganic zinc ethyl silicate paint. It meets Petrobras N 1661 standard, providing carbon steel with galvanic corrosion protection. Recommended for protecting metal structures, steel sheets, bridges, containers, port cranes and equipment, and for painting the external part of pipes, ducts and chimneys that operate at high temperatures.

### W-TERM HPA 660 ALUMINUM

Single component modified silicon based topcoat, resistant to high temperatures up to 600 °C, it can be applied directly over carbon steel or over zinc ethyl silicate paint for greater anticorrosive protection. Recommended for painting chimneys, furnaces, boilers, heat exchangers, pipes or other equipment that operate at temperatures between 150 °C and 600 °C.



## OFFSHORE ENVIRONMENTS - ISO 12944-9 STANDARD

### CX RATING

#### LACKPOXI N 1277

Bicomponent, zinc rich polyamide epoxy primer that provides anticorrosive protection for carbon steel through the galvanic action of the zinc metallic pigments. Developed for application over surfaces prepared by abrasive blasting and hydroblasting, it has the remarkable quality of being suitable for application over wet surfaces. Recommended as an anticorrosive primer on structures and equipment exposed to highly aggressive environments, it meets the requirements of Petrobras Standard N 1277, Norsok M-501, Edition 6, System 1 and meets the composition and performance requirements of SSPC Paint 20 at level 1.

#### W-POLI HPD 451

Polyaspartic, high solids, high concentration direct to metal that presents excellent color and gloss retention. This solution provides a resistant film, with high gloss and corrosion resistance, being widely used for painting equipment and structures that require excellent protection, where durability and aesthetics are required. The product meets Petrobras N 2943 standards - Annex G - for requirements for polyaspartic coatings, as well as Petrobras N 2913 standard - Item 4.5 - for polyaspartic coatings.

#### WEGPOXI WET SURFACE 89PW

Product applicable to blasted, dry, humid, hydroblasted steel substrates with manual or mechanical treatment. It offers excellent anticorrosive protection in aggressive environments such as vessel decks and sides. Also available in the aluminum version, providing even a greater anticorrosion protective barrier. Certified for contact with drinking water (white and aluminum colors). Certified in accordance with MED Directive 2014/90/EU, in compliance with IMO Resolution MSC 307 (88) tests – Annexes 2 and 5.

#### PAINTING SCHEMES - CX ENVIRONMENT

Plan 01	LACKPOXI N1277 + W-POLI HPD 451
Plan 02	LACKPOXI N1277 + WEGPOXI WET SURFACE 89PW + LACKTHANE N2677

### CX AND IM4 RATING (TIDE AND SPLASH ZONE)

#### W-POXI BLOCK GFD 362

High build, polyamine, epoxy direct to metal without solvents, formulated with nontoxic anticorrosion pigments for carbon steel surfaces. High build application with only one coat and quick release. Product developed for surfaces prepared by abrasive blasting and hydroblasting, it can be applied over wet surfaces.

#### PAINTING SCHEME - CX / IM4 ENVIRONMENT

W-POXI BLOCK GFD 362

## POWDER COATINGS

#### POLITHERM 55 HB C5H

Epoxy powder coating that stands out for its excellent adhesion, flexibility, and physical and chemical resistance. In addition to providing remarkable anticorrosion protection, this product is formulated with low bake technology, which makes it effective in painting systems for highly corrosive environments. Working as a high build primer, it offers robust protective barrier, contributing to the long-lasting preservation of protected surfaces.

#### POLITHERM 86 WFS AC

Super durable polyester powder coating with anticorrosion properties. Used as topcoat in painting schemes for aggressive environments, it has excellent resistance to weathering with high gloss and color retention.



## WRAPX® – ELASTOMERIC COATING

### WRAPX® HBD 421 and EVD 473 – COATING FOR CRITICAL AREAS

Elastomeric applicable in high build coats. Flexible waterproofing coating with excellent anticorrosion resistance developed for application on flanges, valves and screw seals. It can be applied over a protective waxy film to promote easy removal when access for maintenance is necessary.

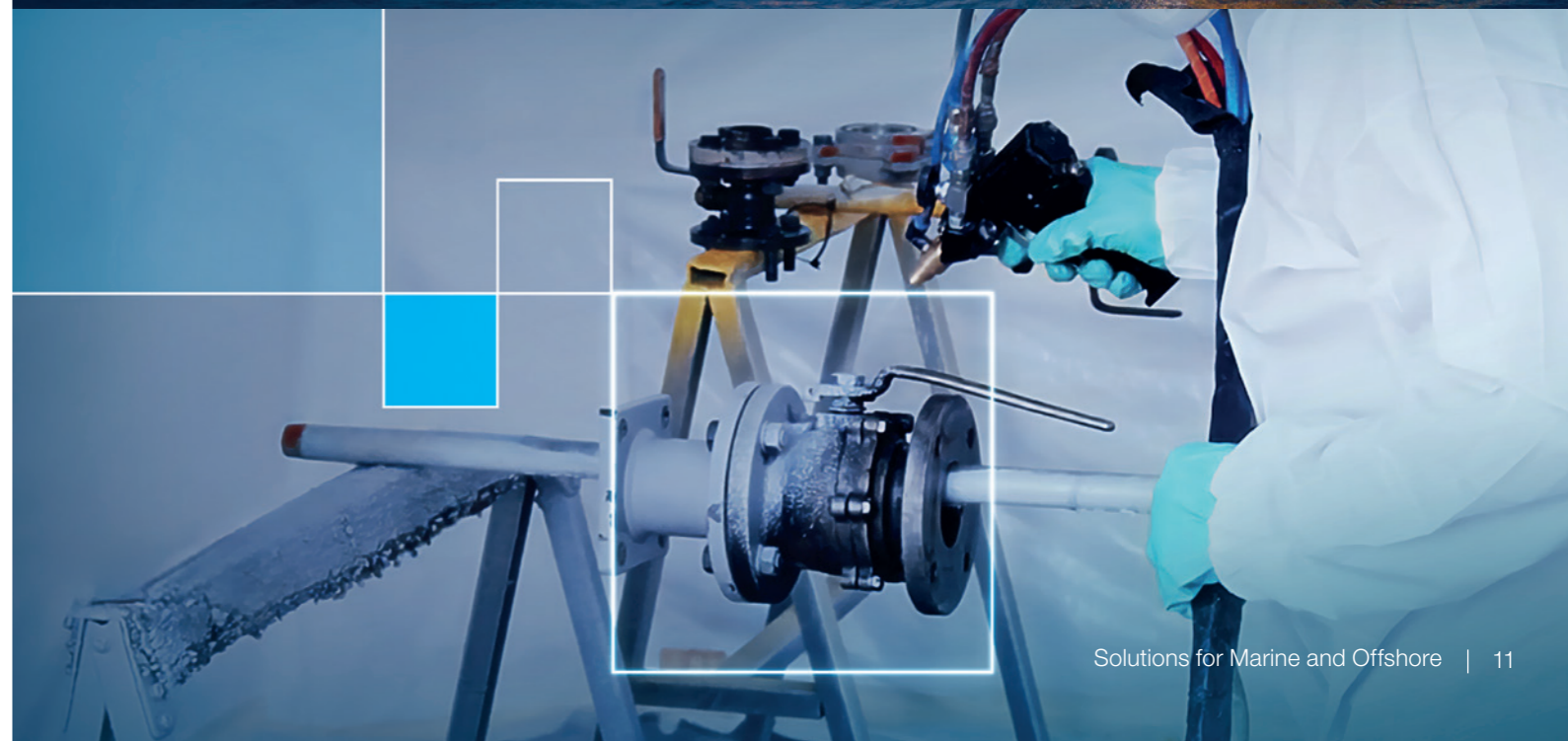
- It offers excellent resistance to abrasion and corrosion, ensuring long-lasting protection;
- High build application in a single coat, allowing application in thicknesses of up to 2,000 µm;
- Spray or brush application solutions;
- It provides high retention on edges and weld beads;
- It allows topcoat painting.

### WRAPX® HBD 521 – COATING FOR FLOORS AND STRUCTURES

Elastomeric applicable in high build coats. Flexible waterproofing coating with excellent anticorrosion and abrasion resistance.

Recommended as protection for industrial equipment and structures, carbon steel and concrete floors, internal and external painting of pipes and mining areas, where physical protection with excellent anticorrosive resistance and release for work in a few hours is required.

- It offers excellent resistance to impact, abrasion and corrosion, ensuring long-lasting protection;
- It allows the release for traffic and use of equipment and structures in up to 2 hours, depending on their final use and application conditions;
- It complies with AWWA C-222 standards and GM/MS Directive No. 888 for potability, ensuring quality and compliance;
- It can be applied with a thickness of up to 8 mm in a single coat on floors or horizontal surfaces;
- It can be applied with a smooth or non-slip topcoat, using particulate spraying, adapting to specific needs.



The scope of WEG Group solutions is not limited to the products and solutions presented in this brochure.

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contact us.**

**For WEG's worldwide  
operations visit our website**



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