

SOLUTIONS FOR MARINE AND OFFSHORE

Industrial Motors

Commercial & Appliance Motors

Automation

Digital & Systems

Energy

Transmission & Distribution

Coatings

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



Driving efficiency and sustainability



An aerial view of a large offshore supply vessel at night. The vessel is illuminated with various lights, including green lights along the top edge and yellow lights on the deck. A large yellow crane is visible on the right side. The vessel is positioned in the middle of the ocean, with the horizon visible in the background.

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 coating 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

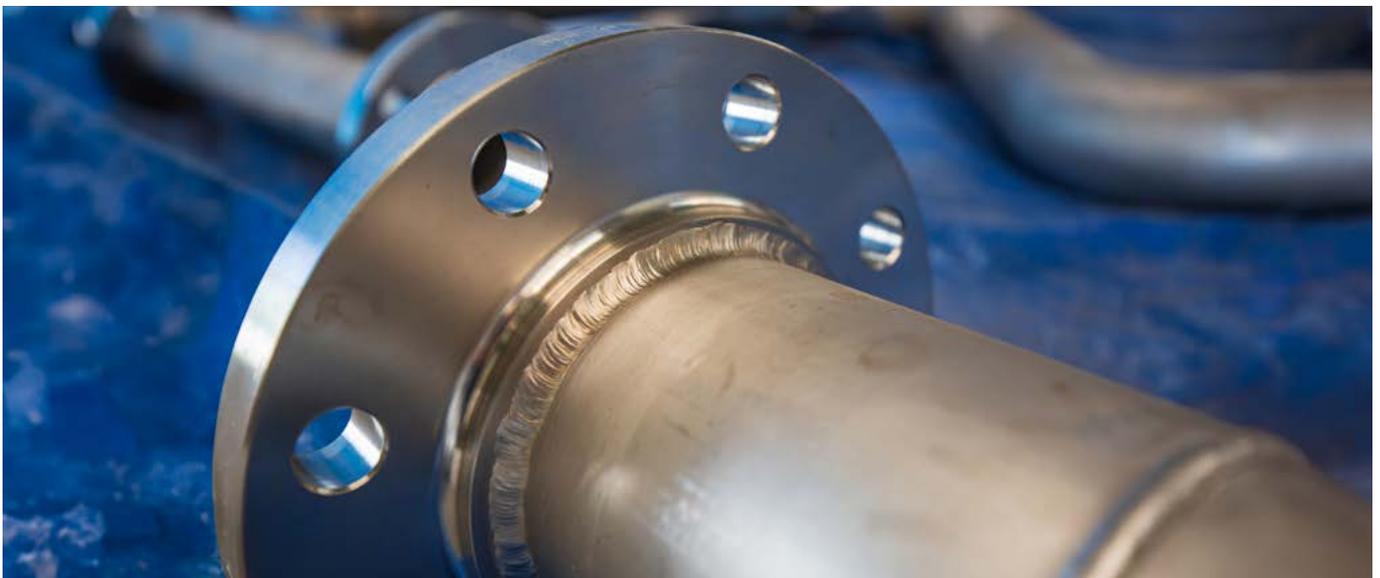
Bicomponent product based on polyamine and iron oxide. It stands out for its fast drying, good adhesion, simple application and high performance. This primer is specially formulated to meet the needs of shipyards and metallurgy companies. Highly recommended for the internal protection of tanks during 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 coating process. Recommended for coating aluminum, galvanized steel, fiber and degreased steel surfaces.



PRIMERS AND INTERMEDIATE COATINGS

The application of primers and intermediate coatings play a vital role in coating 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

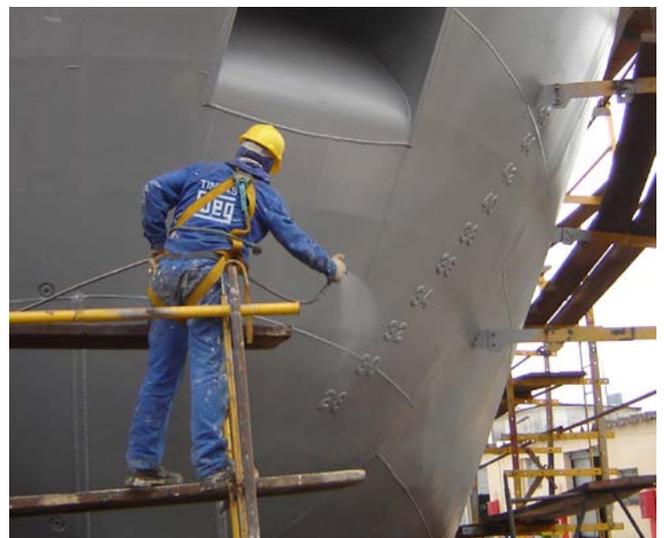
Coating formulated with anticorrosive and tar-free pigments. It offers high-performance anticorrosive performance, being suitable for applications both above and below the waterline, and it can be applied in one or two high-build coats.

Recommended for maintenance and repair of vessels and coating of metal structures and piping. Certified as part of an approved coating 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 recoating 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.

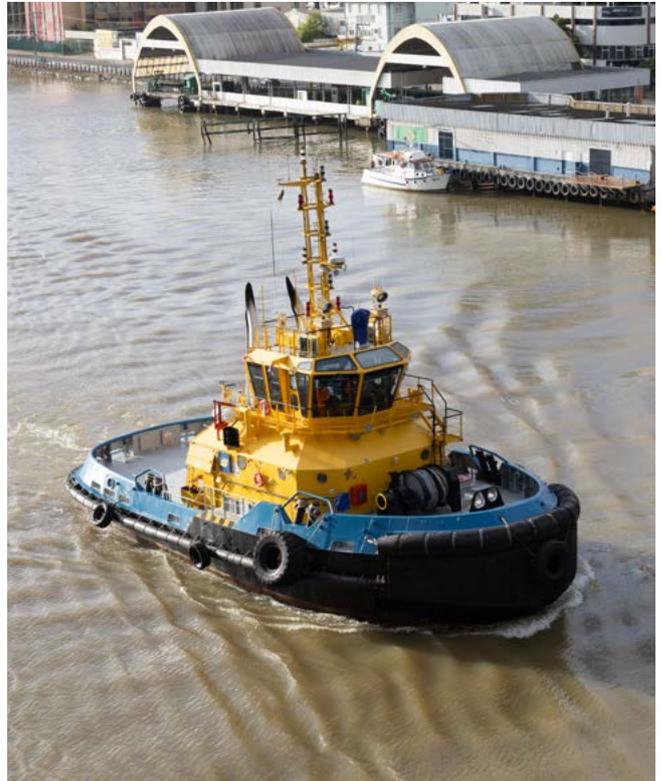


W-ECOLOFLEX 150 HYB

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. It is applied to vessels in general, ensuring excellent and long-lasting performance while providing significant 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 recoating interval. USE RECOMMENDATIONS: Recommended for coating areas above the waterline, sides, superstructures and metal structures, on-board equipment and various machines.

COATING 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 19,68 mils in a single coat, simplifying the coating 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 coating 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. Coating 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 resistant 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 coating 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

High-build, high-solids Novolac epoxy anti-slip coating, notable for its high hardness, outstanding abrasion resistance, impact resistance, and resistance to water, oils and salts. It offers anticorrosive protection and impermeability. Recommended for various applications, including stairs, walkways, ramps, helidecks, vessel decks and platforms. It complies with Petrobras Standard N 1374 and is certified as part of a paint scheme approved under MED Directive 2014/90/EU, in accordance with the tests of IMO Resolution MSC 307 (88) – Annexes 2 and 5. It also complies with Petrobras Standard 2943 Annex F.

W-POLI ADA 462

Aliphatic functional amine, solvent-free, two-component anti-slip coating, suitable for use in indoor environments. Applicable in high film thickness in a single coat, with fast curing. Complies with Petrobras Standard 2943 Annex F.



PROTECTION FOR HOT SURFACES

Coating 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 428 °F, it can be applied with surface temperatures of up to 212 °F.

W-TERM CVD 823

Two-component primer and finish providing excellent protection under thermal insulation when used on cryogenic equipment with temperatures ranging from -320.8 °F to 1200.2 °F, formulated with a multipolymeric matrix. Complies with Petrobras Standard 2943 Annex E.

W-TERM HPA 660 ALUMINUM

Single component modified silicon based topcoat, resistant to high temperatures up to 1112 °F, it can be applied directly over carbon steel or over zinc ethyl silicate paint for greater anticorrosive protection. Recommended for coating chimneys, furnaces, boilers, heat exchangers, pipes or other equipment that operate at temperatures between 302 °F and 1,112 °F.



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 coating 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.

COATING 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.

COATING 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 coating 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 coating 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.

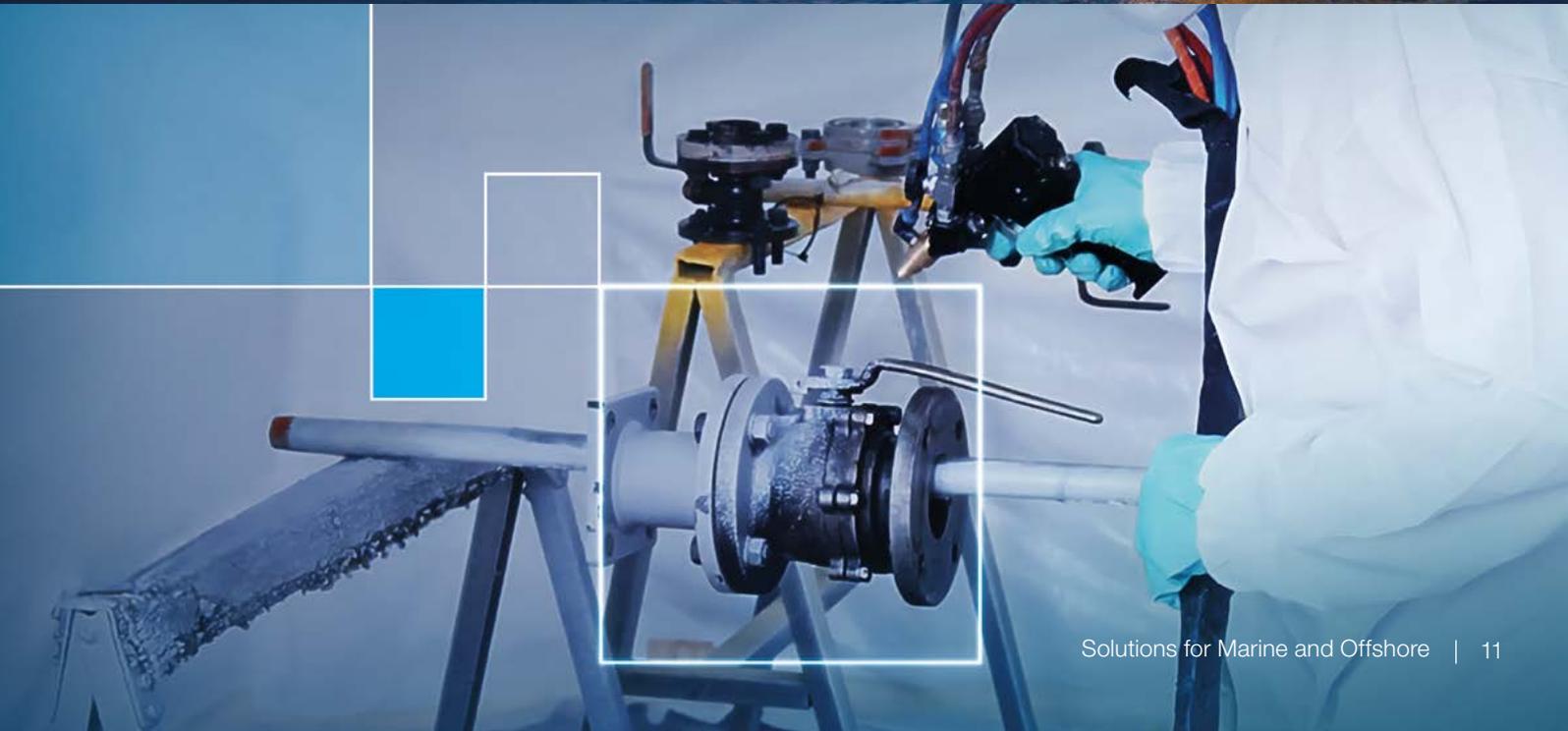
- It offers excellent resistance to abrasion and corrosion, ensuring long-lasting protection;
- High build application in a single coat, allowing application in thicknesses of up to 78,74 mils;
- Spray or brush application solutions;
- It provides high retention on edges and weld beads;
- It allows topcoat coating.

WRAPX® HBD 332 – HIGH-BUILD FLEXIBLE EPOXY COATING

High-performance coating developed for high-thickness applications, reducing application time, eliminating the need for multiple layers, and minimizing future interventions, while providing excellent mechanical resistance and barrier anticorrosive protection.

Recommended for carbon-steel floors, external piping, and metallic structures in corrosive environments such as chemical plants, sanitation systems, and offshore platforms.

With operational advantages that make it the ideal choice for industrial sectors facing aggressive conditions, WRAPX® HBD 332 enables significant labor savings and increases maintenance process efficiency, as it requires fewer coats to achieve the ideal protective thickness.



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**



www.weg.net

f i wegcoatings

COATINGS



+55 (47) 3276.4000

tintas@weg.net

Guaramirim - SC - Brazil +55 (47) 3276.4000

Mauá - SP - Brazil +55 (11) 4547.6100

Cabo de Santo Agostinho - PE - Brazil +55 (81) 3512.3000

Betim - MG - Brazil +55 (31) 3268.0686

Macaé - RJ - Brazil +55 (22) 99946.0697

Buenos Aires - Argentina +54 (11) 4299.8000

Atotonilco de Tula - Mexico +52 (55) 5321.4231

Atlanta - USA +1-800-ASK-4WEG