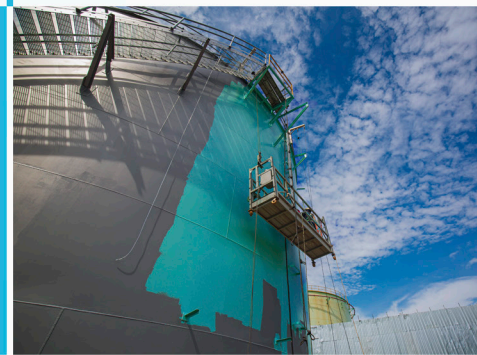


Motors
Automation
Energy
Transmission &
Distribution
Coatings

SOLUTIONS FOR PAINTING TANKS

Coatings
that ensure
protection,
efficiency and
durability.



Driving efficiency and sustainability



SOLUTIONS FOR PAINTING TANKS

LIQUID COATINGS

Each market sector has its specific characteristics. We understand that like no one else. For painting tanks, WEG Coatings developed several lines, including:

- W-LACK (alkyds)
- W-THANE (polyurethanes)
- W-ZINC (corrosion protection)
- W-POXI (epoxies)
- PETROBRAS STANDARDS (standardized)

PETROBRAS STANDARD N 2913 - FUEL TANKS

PETROBRAS Standard N 2913 establishes a series of parameters regarding surface treatment, as well as products to be used to paint tanks. Below is the objective of the standard and a summary table with the coating specifications. For further information on parameters, refer to the standard.

This standard establishes the anticorrosive coating systems for the internal and external areas of storage tanks, spheres, cylinders, and pressure vessels. The internal anticorrosive coatings are used to paint land and sea installations, and the external anticorrosive coatings to paint land installations only.

EQUIPMENT	STORED PRODUCT	AREA TO BE PAINTED	COATING
Tank with fixed or floating roof.	Salty water Gasolines Ballast water Foam-forming liquid Diesel oil Caustic soda Naphthas Mineral turpentine Hexane Solvent Hydrated ethyl alcohol Bio diesel	The coating must cover the entire internal surface.	N 2912 Type II
Tank with fixed roof	Diesel Fuel Fuel Oil Lubricant Oil	The coating must cover the entire bottom and top of the tank. The side must be covered by two 1 m high circumferential stripes; one from the bottom and another from the top. The tank support columns must be coated one meter high from the bottom and top.	N 2912 Type II
Tank with fixed roof	Acid water Formation water Production Coke naphtha	The coating must cover the entire internal surface.	N 2912 Type III
Floating tank in refineries	Petroleum	Bottom and top, side and support columns must be covered with two 2.44 m high circumferential stripes; one from the bottom and another 1 m from the top.	N 2912 Type III
Tank with fixed roof	Petroleum with water formation	Bottom and roof, side and support columns must be coated with two 2.44 m high circumferential stripes, one from the bottom and another 1 m from the top	N 2912 Type III
Tank with fixed or floating roof	Petroleum with water formation	The coating must cover the entire internal surface.	N 2912 Type III

Internal painting of fuel tanks

WEGPOXI BLOCK N 2912 TYPE II

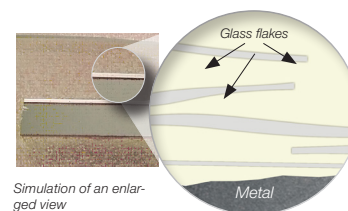
High solids and high build two-component Novolac epoxy primer. It has extremely low content of volatile organic compounds (Low VOC). Excellent chemical resistance and good resistance to abrasion and impact. The product meets the requirements of Resolutions No. 105/1999, RDC No. 42/2013, RDC No. 51/2010, RDC No. 52/2010, RDC No. 326/2019, Decree No. 55.871/1965 and Directive SVS No. 685 for contact with food.

COLOR	VOLUME SOLIDS	THEORETICAL COVERAGE	DRYING	CHARACTERISTIC
White, green and gray	96 ± 1%	86.8 ft ² /gal	Touch: 6 hours Handling: 16 hours Total: 120 hours	High chemical resistance

The product is also an option as a primer for external painting in seaside environments and for painting tanks with thermal insulation and operating temperatures between 176°F and 302 °F.

WEGPOXI BLOCK N 2912 TYPE III

Two-component high build and high solids Novolac epoxy primer with very low solvent content (LOW VOC). Its formula contains glass flakes, providing an excellent protective barrier, in addition to great resistance to abrasion and impact.



COLOR	VOLUME SOLIDS	THEORETICAL COVERAGE	DRYING	CHARACTERISTIC
White, green, gray, oxide red	96 ± 1%	65.2 ft ² /gal	Touch: 6 hours Handling: 16 hours Total: 120 Hours	Glass flakes

External painting of fuel tanks

In addition to the suggested products for internal painting of tanks, WEG Coatings has in its portfolio several options based on the PETROBRAS Standard for external painting of tanks, including:

LACKPOXI N 2630

Two-component, high build, high solids polyamide epoxy primer with zinc phosphate anticorrosive pigments.

COLOR	VOLUME SOLIDS	THEORETICAL COVERAGE	DRYING	CHARACTERISTIC
Oxide red, gray and white	81 ± 1%	220 ft ² /gal	Touch: 3 hours Handling: 16 hours Total: 240 hours	Anticorrosive pigmentation

LACKPOXI 76 WET SURFACE N 2680

High build polyamine epoxy primer, intermediate coating and topcoat without solvent, formulated with non-toxic anticorrosion pigments for carbon steel surfaces. This material can be applied over wet surfaces.

COLOR	VOLUME SOLIDS	THEORETICAL COVERAGE	DRYING	CHARACTERISTIC
Ral, Munsell or as per the customer's standard	-	271.8 ft ² /gal	Touch: 6 hours Handling: 16 hours Total: 168 hours	Anticorrosive pigmentation

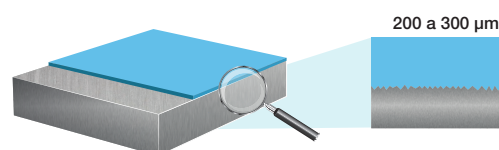
LACKPOXI N 2677

Glossy, high solids, aliphatic acrylic polyurethane topcoat. Product developed to compose an anticorrosion protection system with high sealing power, chemical and weathering resistance.

COLOR	VOLUME SOLIDS	THEORETICAL COVERAGE	DRYING	CHARACTERISTIC
Ral, Munsell or as per the customer's standard	65 ± 2%	407.5 ft ² /gal	Touch: 4 hours Handling: 8 hours Total: 160 hours	Resistance to weathering

W-POLI HPD 451

High solids, polyaspartic direct to metal with excellent color and gloss retention and super fast drying. The product produces a high gloss film and chemical resistance **in a single coat, replacing old systems with two coats (primer + topcoat)**. Product widely used to paint equipment in aggressive industrial environments. The Product complies with Petrobras Standards N 2943 – Annex G and N 2913 – Item 4.5.



COLOR	VOLUME SOLIDS	THEORETICAL COVERAGE	DRYING	CHARACTERISTIC
Ral, Munsell or as per the customer's standard	90 ± 2%	198 ft ² /gal	Touch: 2 hours Handling: 5 hours Total: 168 Hours	Dual function

FOOD TANKS

Tanks to store food are subject to the aggression of both the content itself and the water produced by condensation. The painting of the tanks should not only protect them from the actions of their contents, but also help in their better storage. In order to meet such requirements, WEG recommends:

INTERNAL PAINTING - SCHEME 01	PRODUCT	DRY THICKNESS	FUNCTION
1st coat	W-FENOXI HT	11.8 mils	Direct to Metal

INTERNAL PAINTING - SCHEME 02	PRODUCT	DRY THICKNESS	FUNCTION
1st coat	WEG FENOXI	5.9 mils	Primer
2nd coat	WEG FENOXI	5.9 mils	Topcoat

EXTERNAL PAINTING - SCHEME 01	PRODUCT	DRY THICKNESS	FUNCTION
1st coat	W-POXI ERP 322	5.9 mils	Primer
2nd coat	W-THANE ANTIFUNGO 508	2.6 mils	Topcoat

EXTERNAL PAINTING - SCHEME 02	PRODUCT	DRY THICKNESS	FUNCTION
1st coat	WEGPOXI WET SURFACE 89 PW	5.9 mils	Primer
2nd coat	WEGTHANE HPA 501	2.4 mils	Topcoat

W-FENOXI HT

Two-component, high build phenolic epoxy direct to metal with excellent chemical resistance, including several solvents, and great resistance to corrosion and abrasion. Certified for contact with alcoholic food.

COLOR	VOLUME SOLIDS	THEORETICAL COVERAGE	DRYING	CHARACTERISTIC
White, gray, oxide red and blue	76 ± 2%	103.1 ft ² /gal	Touch: 3 hours Handling: 8 hours Total: 168 hours	Dual function

WEG FENOXI

Two-component phenolic epoxy direct to metal with excellent chemical resistance, including several solvents, and great resistance to corrosion and abrasion. Certified for contact with drinking water and alcoholic food.

COLOR	VOLUME SOLIDS	THEORETICAL COVERAGE	DRYING	CHARACTERISTIC
White, gray, oxide red and blue	76 ± 2%	207.8 ft ² /gal	Touch: 3 hours Handling: 8 hours Total: 168 hours	Dual function

W-POXI ERP 322

Two-component, high solids polyamide epoxy primer with anticorrosion zinc phosphate-based pigments.

COLOR	VOLUME SOLIDS	THEORETICAL COVERAGE	DRYING	CHARACTERISTIC
Oxide red, gray, blue and aluminum	80 ± 2%	215.9 ft ² /gal	Touch: 1 hour Handling: 4 hours Total: 168 hours	Super fast drying

W-THANE ANTIFUNGO 508

Glossy, high solids aliphatic acrylic polyurethane topcoat. It provides color and gloss retention for much longer periods than the conventional aliphatic polyurethanes. It provides anticorrosion protection, sealing function and continuous weathering resistance. It has great effectiveness in the antifungal activities.

COLOR	VOLUME SOLIDS	THEORETICAL COVERAGE	DRYING	CHARACTERISTIC
Ral, Munsell or as per the customer's standard	63 ± 2%	395.2 ft ² /gal	Touch: 4 hours Handling: 8 hours Total: 240 hours	Antifungal

WEGTHANE HPA 501

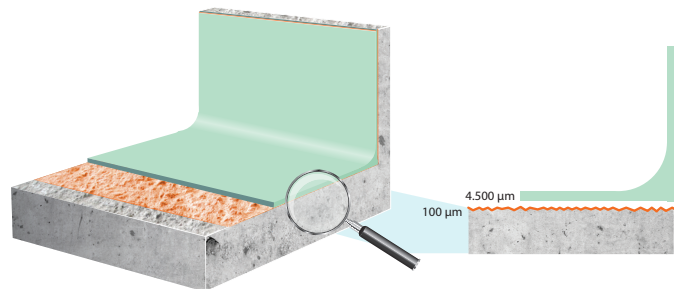
Two-component, gloss aliphatic acrylic polyurethane-based topcoat.

COLOR	VOLUME SOLIDS	THEORETICAL COVERAGE	DRYING	CHARACTERISTIC
Ral, Munsell or as per the customer's standard	56 ± 2%	378.9 ft ² /gal	Touch: 2 hours Handling: 6 hours Total: 168 hours	Resistance to weathering

CONTAINMENT BASINS

To meet the needs of the food industry, we provide innovative solutions for maximum floor protection in terms of contamination, constant cleaning requirements and reduction of long-term maintenance costs.

PRODUCT	THICKNESS	FUNCTION	
W-POLI HSS 455	3.9 mils	Sealer	FLOOR
W-POLY ANA 455 NOBAC	177.2 mils	Topcoat	
W-POLI HSS 455	3.9 mils	Sealer	BASEBOARD
W-POLI RPA 455 NOBAC	-	Topcoat	



W-POLI HSS 455

W-POLY HSS 455 is a two-component urethane resin-based coating developed for primer coatings and as an adhesion bridge for urethane systems. It composes painting schemes for floors with excellent mechanical strength and abrasion, chemical, physical and thermal resistance. Developed to seal and promote adhesion of baseboards, floors, walls, stairs, gutters and industrial floors. Use in indoor and outdoor environments.

W-POLY ANA 455 NOBAC

W-POLI ANA 455 NOBAC is a high performance three-component, predosed topcoat ready for mixing and application. The produced system is a high solids, solvent-free, low VOC and antimicrobial application that inhibits the proliferation of microorganisms, according to ASTM G-21. Ideal for floors in the food and beverage industries, for instance, that need excellent abrasion, chemical, mechanical, physical and thermal resistance. When cured, the coating produces a high build, smooth, matte surface ranging from 3 to 6 mm.

W-POLY ANA 455 NOBAC

W-POLI RPA 455 NOBAC is a high performance, self-leveling, troweled urethane-based mortar coating. Developed for industrial baseboards, it is a three-component, predosed composite, ready for mixing and application. It contains bactericide agents that prevent the proliferation of microorganisms on the surface of the coating, according to the ASTM G-21 standard. When applied, the coating produces a smooth matte finish, besides providing easy cleaning.

WATERPROOFING, POLYUREA-BASED PROTECTIVE COATINGS WITH HIGH RESISTANCE TO ABRASION AND CORROSION FOR DIFFERENT INDUSTRY SEGMENTS

Over the past thirty years, chemical engineers have been researching different polymer formulations, and polyurea is among the most advanced resins ever produced.

The polymer stands out for its unique characteristics of high elasticity, breaking strength (no tearing, no chipping) and total waterproof after application.

Non-flammable, easy to clean and resistant to chlorine, salt water, various organic agents, acids, alkaline chemicals and petroleum-based products, the W-Poli line withstands high and low temperatures.

	HYBRID	PURE
COMPOSITION	Hybrid polyurea <i>(Modified amine)</i>	Pure aromatic polyurea <i>(Amine)</i>
TRAFFIC	Light	Heavy
MECHANICAL STRENGTH	Moderate	High
ABRASION RESISTANCE	Moderate	High
TEAR RESISTANCE	Moderate	High
UV RESISTANCE <i>*referring to color and gloss retention</i>	Moderate	Moderate
RECOMMENDED USE	Internal	Internal and External

MAINTENANCE PAINTING

Every maintenance painting job presents difficulties regarding surface treatment, which is mostly done manually and mechanically. For such cases, WEG Coatings recommends the following products:

WEGPOXI WET SURFACE 89 PW

High build and high solids epoxy direct to metal. This product complies with Directive GM/MS No. 888 of the Brazilian Ministry of Health, of May 4, 2021.

COLOR	VOLUME SOLIDS	THEORETICAL COVERAGE	DRYING	CHARACTERISTIC
Ral, Munsell or as per the customer's standard	83 ± 2%	149.9 ft ² /gal	Touch: 3 hours Handling: 8 hours Total: 168 hours	Great adhesion

W-POXI BLOCK HPP 402

High solids Novolac epoxy primer. It provides unmatched chemical and anticorrosion protection in highly aggressive environments, such as C5-M according to ISO 12944.

COLOR	VOLUME SOLIDS	THEORETICAL COVERAGE	DRYING	CHARACTERISTIC
Aluminum	85 ± 3%	283.6 ft ² /gal	Touch: 4 hours Handling: 10 hours Total: 168 hours	High performance

HIGH TEMPERATURE RESISTANT COATING

In order to ensure the protection even at high temperatures, WEG recommends the following schemes:

INTERNAL PAINTING	PRODUCT	DRY THICKNESS	FUNCTION
1st coat	W-PHENOXY ATD 362	5.9 mils	Direct to Metal

EXTERNAL COATING	PRODUCT	DRY THICKNESS	FUNCTION
1st coat	W-THERM HPD 364	5.9 mils	Direct to Metal

W-PHENOXY ATD 362

Two-component, high build Novolac epoxy direct to metal with excellent chemical resistance, including several solvents, and great resistance to corrosion and abrasion. Due to its resistance to high temperatures, it can be used in areas with temperatures up to 220 °C (dry heat and also dry/wet cycles).

COLOR	VOLUME SOLIDS	THEORETICAL COVERAGE	DRYING	CHARACTERISTIC
White and gray	88 ± 2%	239.2 ft ² /gal	Touch: 3 hours Handling: 8 hours Total: 168 hours	High temperature

W-TERM HPD 364

Two-component phenolic epoxy coating with excellent chemical and anticorrosive resistance, which are maintained when kept at high temperatures up to 220 °C. Recommended for places where thermal insulation will be installed.

COLOR	VOLUME SOLIDS	THEORETICAL COVERAGE	DRYING	CHARACTERISTIC
Ral, Munsell or as per the customer's standard	72 ± 2%	195.6 ft ² /gal	Touch: 5 hours Handling: 8 hours Total: 168 hours	High performance

For further information regarding the painting schemes, such as resistance, compatibility and maintenance, contact the Customer Service Department of WEG Coatings.



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

**To know our portfolio,
contact us.**

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





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