

Solutions for Painting Machinery and Equipment

- Industrial Motors
- Commercial & Appliance Motors
- Automation
- Digital & Systems
- Energy
- Transmission & Distribution
- Coatings**

High technology and maximum efficiency in **liquid coatings** and **powder coatings**.



Driving efficiency and sustainability





Technology and innovation for the industrial machine and equipment painting market.

WEG has complete coating solutions with excellent corrosion protection and chemical resistance, with products developed for maintaining equipment in highly aggressive industrial environments.

WEG coatings provide greater protection for industrial equipment, ensuring a longer service life of assets and longer intervals between maintenance stops, which generates increased productivity at manufacturing plants.

The painting schemes meet the demanding requirements of ISO 12944, from corrosivity classification C1 (very low) to C5 (extreme) with expected durability of over 25 years. For machines and equipment, WEG developed the following lines:

Liquid coatings

- W-LACK (alkyds)
- W-POXI (epoxies)
- W-THANE (polyurethanes)
- W-TERM (ovens and high temperature)
- W-HIDRO (water-soluble)
- Petrobras standards (standardized)
- W-POLI (polyaspartics)

Powder coatings

- POLITHERM
 - Epoxy system
 - Hybrid system
 - Polyester system
- NOBAC (antimicrobial)
- W-Eco (free from heavy metals)
- W-Zn (rich in zinc)

Innovation and technology in liquid coatings

Discover the complete solutions, primers, topcoats and dual-purpose options that make up our painting systems designed to meet the requirements of ISO 12944.

W-POLI HPD 451

Greater productivity with polyaspartic system.

The W-POLI HPD 451 offers a unique combination of features. It provides corrosion protection comparable to an epoxy primer, while maintaining color and gloss like an acrylic polyurethane. This innovation simplifies the painting process, eliminating a step and increasing efficiency.

It complies with C4 class and can be used to compose a painting system for C5 environments of ISO 12944. According to the table below:

Classification ISO 12944	Environment	Painting scheme	Function	Dry thickness per coat (µm)	Durability expectation ISO 12944
C4	External	W-POLI HPD 451	Dual function polyaspartic	180	Medium (7 to 15 years)
C5	External	W-POXI ZSP 315 N1277	Zinc-rich epoxy primer	80	High (15 to 25 years)
		W-POLI HPD 451	Dual function polyaspartic	180	

W-POXI ERP 322

Six-month repainting interval.

High solids epoxy primer that allows the application of a subsequent coat even after long periods. It is part of painting schemes that meet the C3 and C4 class of ISO 12944 (see the table on the side).

WEGPOXI WET SURFACE 89 PW ALUMINUM

Corrosion protection with great durability.

Epoxy primer with excellent corrosion protection and chemical resistance. Its high adhesion makes it ideal for maintenance painting jobs where blasting is not possible. It may also be used as a system converter. This versatility allows it to be used in different industries. It is part of painting schemes that meet the demanding requirements of C5 class of ISO 12944 (see the table on the side).

W-POXI HIDRO ERP 303 + W-THANE HIDRO HPA 501

Sustainability at the service of corrosion protection. Water-based system.

In line with WEG's technological innovation and sustainability guidelines, high-performance products have been developed with water-based technology.

W-POXI RRP 325

Wet-on-wet application

Anticorrosive epoxy primer that allows wet-on-wet application, providing greater productivity as it does not require an interval to apply the topcoat. Technology at the service of productivity in the most demanding production lines.

W-POXI GNP 415

For galvanized substrates.

Used as an adhesion promoter for galvanized steel, aluminum, stainless steel and other hard-to-adhere substrates.

W-THANE SRD 501

PU double PU.

Paint with primer and finishing functions in a single product. Acrylic polyurethane with excellent resistance to UV rays, in addition to excellent protection against corrosion, provides excellent adhesion to carbon steel, galvanized steel, among other substrates.

W-THANE LXP 545

Sandable PU Primer.

PU primer with quick drying and easy sanding, allowing better correction of substrate imperfections and providing a better finish.

Painting schemes for liquid coatings

Classification ISO 12944	Environment	Painting scheme	Function	Dry thickness per coat (µm)	Durability expectation ISO 12944	
C2	Internal and External	W-LACK CVP 115	Alkyd primer	40	Low (up to 7 years)	
		W-LACK SRA 111	Alkyd topcoat	40		
C3	External	W-POXI CVP 315	Epoxy primer	70	Medium (7 to 15 years)	
		W-THANE HPA 501	Polyurethane topcoat	50		
C4	Internal	W-POXI CVD 322	Dual function epoxy	120	Medium (7 to 15 years)	
			W-POXI ERP 322	Epoxy primer		120
	External	W-THANE HPA 501	Polyurethane topcoat	50	Medium (7 to 15 years)	
			W-POXI CVD 323	Dual function epoxy		180
	Internal	W-THANE HPA 501	Polyurethane topcoat	60	High (15 to 25 years)	
			W-POXI ERP 322	Epoxy primer		120
C5	External	W-POXI CVD 323	Epoxy topcoat	120	High (15 to 25 years)	
			W-POXI 89 PW ALUMINUM	Epoxy primer		180
	Internal	W-THANE HPA 501	Polyurethane topcoat	60	Medium (7 to 15 years)	
			W-POXI 89 PW ALUMINUM	Epoxy primer		150
	External	W-POXI CVD 323	Epoxy topcoat	150	High (15 to 25 years)	
			W-POXI 89 PW ALUMINUM	Epoxy primer		250
	Internal	W-THANE HPA 501	Polyurethane topcoat	50	High (15 to 25 years)	
			W-POXI ZSP 315 N1277	Zinc-rich epoxy primer		75
			W-POXI 89 PW ALUMINUM	Epoxy primer		150
			W-THANE HPA 501	Polyurethane topcoat		50

Note: all treated by Sa 2 1/2 abrasive blasting, except schemes for condition C2 (manual/mechanical).



Corrosion protection and high temperature resistance

Products developed with special raw materials that enable the protection of machines and equipment that operate at high temperatures. A highlight is the W-TERM HPD 364, a phenolic epoxy with excellent chemical and corrosion resistance, characteristics that are maintained even at high temperatures. This product is recommended for equipment that operates at up to 230 °C. Check out other painting schemes for high temperatures (up to 600 °C) below:

Painting scheme	Function	Dry thickness per coat (µm)
W-TERM CVA 660	High temperature silicone paint up to 600°C	20 - 30 µm
ETHYL SILICATE ZINC N 1661 PD + W-TERM HPA 660	Zinc ethyl silicate primer + Silicone paint - Scheme for temperatures up to 500 °C	70 - 80 µm
		20 - 30 µm
W-TERM HPD 364	Dual function epoxy for high temperature 230 °C	100 - 200 µm

Powder coatings with international quality certification

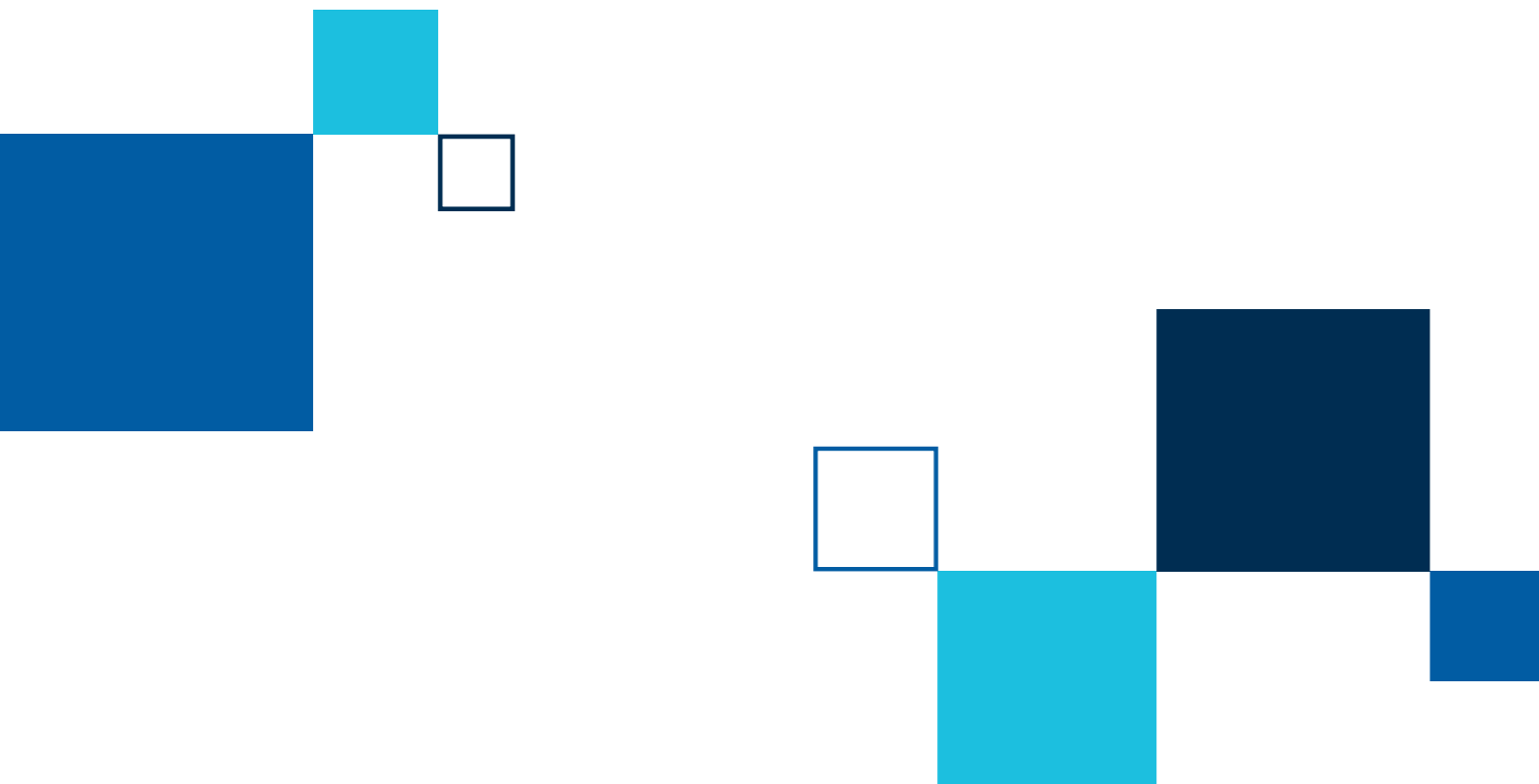
WEG also offers powder coatings for highly aggressive environments.

WEG's powder coating painting schemes meet the demanding requirements of ISO 12944, providing outstanding durability of up to 25 years. The scheme consisting of the POLITHERM 24 W-Zn and POLITHERM 88 WFS AC (Anticorrosive) lines stands out. This double layer system includes a zinc-rich primer that provides top-notch corrosion protection, along with a super durable polyester finish that maintains color and gloss over time. As a result, equipment treated with this painting scheme has much greater durability compared to conventional epoxy and polyester systems. This scheme meets the demanding requirements of class C5 - external of ISO 12944. (See table on the side).

Painting schemes for powder coatings

Classification ISO 12944	Environment	Painting scheme	Function	Dry thickness per coat (µm)	Durability expectation ISO 12944
C2	Internal	POLITHERM 20/22	Hybrid paint	70	Low (up to 7 years)
	External	POLITHERM 26/27	Polyester paint	70	Low (up to 7 years)
C2	Internal	POLITHERM 50	Hybrid paint	150	Medium (7 to 15 years)
	External	POLITHERM 56	Polyester paint	150	Medium (7 to 15 years)
C4	Internal	POLITHERM 54	High build epoxy paint	120	Medium (7 to 15 years)
		POLITHERM 20/22	Hybrid paint	80	
	External	POLITHERM 54	High build epoxy paint	120	Medium (7 to 15 years)
		POLITHERM 26/27	Polyester paint	80	
C5	Internal	POLITHERM 55 HB	High build epoxy paint	140	Medium (7 to 15 years)
		POLITHERM 54 HB	High build epoxy paint	140	
		POLITHERM 55 HB	High build epoxy paint	140	Medium (7 to 15 years)
		POLITHERM 88 WFS AC	Super durable polyester paint	140	
C5	External	POLITHERM 24 W-Zn HB	Zinc-rich epoxy paint	80	High (15 to 25 years)
		POLITHERM 54 HB	Epoxy paint	140	
		POLITHERM 24 W-Zn HB	Zinc-rich epoxy paint	80	High (15 to 25 years)
		POLITHERM 88 WFS AC	Super durable polyester paint	160	

Notes: In case of using metallic paints, it is recommended to use a layer of Politherm Varnish as topcoat. Larger coats may be needed for full coverage depending on the color of the paint.



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

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operations visit our website**





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