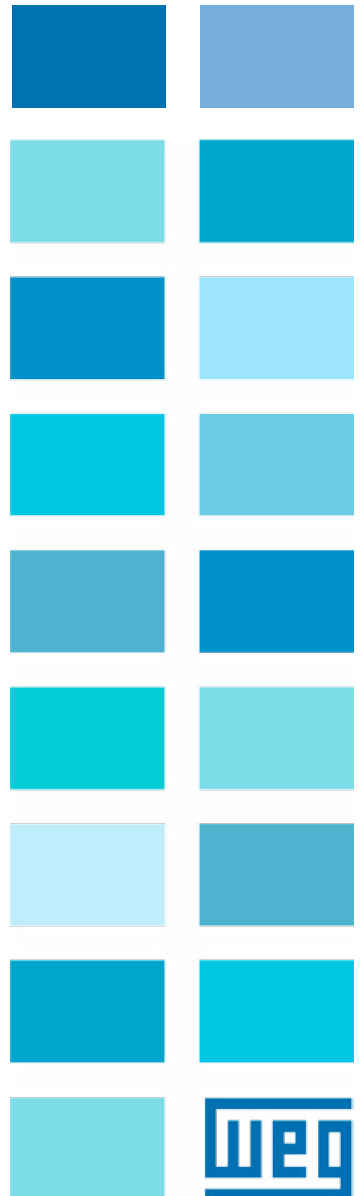


# Coatings

## Solutions for Energy



## Solutions for Hydropower Plants

### WEGPOXI CVD 323

- High solids polyamide epoxy Primer/Topcoat with anticorrosive pigments based on zinc phosphate and good applicability. Excellent adhesion to carbon steel treated with abrasive blasting. Coating applicable in a high build single coat, simplifying the coating process.



### WEG TAR FREE WT

- High build bicomponent epoxy primer/topcoat with excellent chemical and anticorrosive resistance and good abrasion resistance. It complies with standard AWWA C-210. It is certified for contact with drinking water, meeting the Resolution 105 (Type I) of Anvisa (Brazilian National Health Surveillance Agency) and Directive 2914 of the Brazilian Health Ministry.

### W-POXI WET SURFACE 88 HT

- High build bicomponent polyamine epoxy primer/topcoat formulated with anticorrosive pigments for steel surfaces. Developed for application on dry, wet, and hydroblasted surfaces and over a specific primer.

Concerned about the environment, WEG Coatings provides LOW VOC class paintings. The result?  
**High performance and low content of volatile solvent coatings.**

### WEGPOXI BLOCK N 2912

- LOW VOC class high build and high solids Novolac epoxy primer. Excellent barrier protection and high resistance to abrasion and impact with anticorrosive protection, excellent superficial hardness and impermeability.

### W-THANE ENA 501

- High build aliphatic acrylic polyurethane topcoat, with high solids per volume, which provides resistance to continuous weathering. LOW VOC class coating.

Recommended Use	Surface Preparation	Primer			Topcoat		
		Coats	Lines	µm	Coats	Lines	µm
Internal Floodgates	Abrasive Blasting Sa 2 ½	1	WEG TAR FREE WT	250	-	-	-
		2	WEGPOXI WETSURFACE 88 HT		-	-	-
		1	WEGPOXI BLOCK N 2912 TIPO II	400	-	-	-
External Floodgates	Abrasive Blasting Sa 2 ½	1	W-POXI CVD 323	120 - 200	1	W-THANE ENA 501	75 - 125

Note: The schemes submitted are designed to ideal conditions of application. Under different conditions and schemes, please contact WEG Coatings technical department.



## Solutions for Thermal Power Plants

### LACKPOXI N 2198

- Adhesion primer for nonferrous surfaces.

### WEGPOXI CVD 322

- High solids polyamide epoxy Primer/Topcoat with zinc phosphate-based anticorrosive pigments and good applicability. Excellent adhesion to carbon steel treated with abrasive blasting. Coating applicable in a high build single coat, simplifying the coating process.

### W-POXI ZSP 315 N1277

- Zinc-rich polyamide epoxy Primer.

### W-POXI ERP 322

- High solids bicomponent polyamide epoxy primer with zinc phosphate-based anticorrosive pigments, fast drying and good applicability. It has excellent adhesion to carbon steel treated by abrasive blasting.

### WEGTHANE HPA 501

- High solids aliphatic acrylic polyurethane topcoat with excellent color and gloss retention as well as chemical resistance.

### ZINC SILICATE ETHYL ALUMINIUM N 2231

- Inorganic Ethyl Silicate Coating pigmented with zinc and aluminum, resistant to high temperature (up to 500°C).

### W-TERM HPD 364 ALUMINIUM

- Phenolic epoxy topcoat with excellent corrosion and chemical resistance combined with the application on surfaces operating at high temperatures (up to 220°C).

### W-TERM HPD 660 600°C ALUMINIUM

- Modified single-component silicon-based topcoat, temperature resistant up to 600°C with inorganic zinc primers that composes a high performance system for resistance to corrosion and high temperatures.

### WEGPOXI WET SURFACE 89 PW

- High build bicomponent epoxy primer/topcoat with high solids. Surface tolerant product: applicable on dry, wet or hydroblasted steel substrates with manual or mechanical treatment. It offers excellent anticorrosive protection in aggressive environments.

Recommended Use		Internal and External Coating of Parts, "Hoods", etc. - Galvanized Steel Surfaces								
Application	Surface Preparation	Primer			Intermediate Coating			Topcoat		
		Coats	Line	µm	Coats	Line	µm	Coats	Line	µm
Sheltered area (up to 100°C)	Physicochemical cleaning / sanding	1	LACKPOXI N 2198	15	1	W-POXI ERP 322	80	-	-	-
Outdoor Parts exposed to weathering (up to 100°C)	Physicochemical cleaning / sanding	1	LACKPOXI N 2198	15	1	W-POXI ERP 322	100	1	WEGTHANE HPA 501	50

Recommended Use		Internal and External Coating of Parts, "Hoods", etc. - Galvanized Steel Surfaces								
Application	Surface Preparation	Primer			Intermediate Coating			Topcoat		
		Coats	Line	µm	Coats	Line	µm	Coats	Line	µm
Conventional Area (up to 100°C)	Abrasive blasting Sa 2 ½	1	W-POXI ERP 322	100	-	-	-	1	WEGTHANE HPA 501	50
Conventional Area Parts (up to 100°C and peaks of 500°C)	Abrasive blasting Sa 2 ½	1	ZINC SILICATE ETHYL ALUMINIUM N 2231	75	-	-	-	-	-	-
Outdoor Parts exposed to weathering (up to 100°C)	Abrasive blasting Sa 2 ½	1	W-POXI ZSP 315 N 1277	60	1	WEGPOXI CVD 323	100	1	W-THANE ERA 531	35
		1	WEGPOXI WETSURFACE 89 PW	100	1	WEGPOXI CVD 323	100	1	WEGTHANE HPA 501	50
Maintenance	Manual or Mechanical	1	WEGPOXI WETSURFACE 89 PW	100	1	WEGPOXI CVD 323	100	1	WEGTHANE HPA 501	50

Note: The schemes submitted are designed for ideal application conditions. Under different conditions and schemes, please contact WEG Coatings technical department.



## Solutions for Wind Power Plants

In the segment of Wind Energy, WEG has a wide range of solutions, from the painting of the blades and tower structure to the most diverse internal and external equipment of the plant. They combine the versatility of products that can be applied on diverse substrates, such as fibers, concrete, galvanized steel and plastic, and excellent anticorrosive protection and high performance.

### W-POXI ZSP 315 N1277

- Zinc-rich bicomponent polyamide epoxy primer. The product provides anticorrosive protection for carbon steel. It features fast drying, increasing the productivity and complies with Petrobras Standard N 1277.

### WEGTHANE HPA 501

- High performance aliphatic acrylic polyurethane topcoat. High solids product with excellent color and gloss retention as well as chemical resistance.

### WEGPOXI WET SURFACE 88 HT

- High build bicomponent polyamine epoxy Primer/Topcoat formulated with anticorrosive pigments for steel surfaces. Product developed for application on dry, wet and hydroblasted surfaces and on a specific primer. Food contact certified (drinking water).

Conventional scheme – using zinc rich based primer											
Application	Surface Preparation	Primer			Intermediate Coating			Topcoat			
		Coats	Line	µm	Coats	Line	µm	Coats	Line	µm	
Tower (external part)	Abrasive blasting Sa 2 ½	1	W-POXI ZSP 315 N 1277	60	1	WEGPOXI WET SURFACE 88 HT	160	1	WEGTHANE HPA 501	60	
Tower (internal part)	Abrasive blasting Sa 2 ½	1	W-POXI ZSP 315 N 1277	60	-	-	-	1	WEGPOXI WET SURFACE 88 HT	120	

Note: The schemes submitted are designed to ideal conditions of application. Under different conditions and schemes, please contact WEG Coatings technical department.



### Painting Scheme for Concrete Wind Tower

Currently, concrete towers allow higher heights than steel towers. Consequently, the capacity to reach very high heights, such as 120 meters or more, is increased. Based on that, Weg has specific painting schemes for concrete towers.

#### W-POXI HSS 301

- Bicomponent polyamine epoxy varnish that offers adhesion to concrete, cement, asbestos, masonry and wooden surfaces and decreases the excessive or irregular absorption of the top coat when applied over porous substrates.

#### W-THANE TCA 502

- High build aliphatic acrylic polyurethane topcoat, with high solids per volume. It provides an anticorrosive protection barrier with high sealing power and excellent resistance to weathering and abrasion. VOC product line (low content of organic compounds).

Painting scheme for concrete towers							
Recommended use	Recommended use	Primer			Topcoat		
		Coats	Line	µm	Coats	Line	µm
Concrete tower	Sanding	1	W-POXI HSS 301	25	1	W-THANE TCA 502	75

### Painting Scheme for Wind Turbine Blades

#### W-POLI HSM 452 PUTTY

- **Polyaspartic Putty.** High solids and extra fast drying product. It can be applied in a high build single coat directly on the fiber. It is used as a primer for modeling and correction of wind turbine blade imperfections.

#### W-POLI LEP 455

- **Polyaspartic primer/intermediate coating.** High solids product. Extra fast drying product that provides excellent barrier protection, high resistance to abrasion and impact, excellent surface hardness and impermeability.

#### W-POLI HSM 452 PORE FILLER

- **Polyaspartic Putty.** High solids and extra fast drying product. Applied in a single coat directly to the substrate or over the Putty.

#### W-POLI RLA 455

- **Polyaspartic topcoat.** High solids product with excellent color and gloss retention and extra fast drying. Product used as a topcoat for wind turbine blade coating.

Conventional scheme – using zinc rich based primer										
Application	Surface Preparation	Primer			Intermediate Coating			Topcoat		
		Coats	Line	µm	Coats	Line	µm	Coats	Line	µm
Leading edge	Sanding	1	W-POLI HSM 452 PUTTY	500-3000	1	W-POLI HSM 452 PORE FILLER	100-200	1	W-POLI RLA 455	80-125
					1-3*	W-POLI LEP 455	125-175			
Blade shell		-	-	-	-	-	-	1-2		

*Note: The schemes submitted are designed to ideal conditions of application. Under different conditions and schemes, please contact WEG Coatings technical department.*



## Solutions for Transformers

### W-POXI TFP 304

- Epoxy primer recommended for internal coating of tanks and transformers.

### STARZINC 122 N 1277

- Zinc-rich bicomponent polyamide epoxy primer. It provides cathodic protection for substrates. Recommended as anticorrosive primer in structures and equipment exposed to aggressive environments. It complies with Petrobras Standard N 1277.

### W-POXI ERP 305

- Fast drying polyamide epoxy primer.

### W-POXI MCP 312

- High build polyamine epoxy primer or intermediate coating.

### W-POXI MCP 300

- Bicomponent polyamide epoxy primer pigmented with zinc and micaceous iron oxide. It features fast drying, substantially reducing the overcoating intervals. Excellent anticorrosive protection and abrasion resistance.

### W-THANE HBA 503

- High build aliphatic acrylic polyurethane topcoat, with high solids per volume and low VOC. It provides an anticorrosive protection barrier with high sealing power, chemical resistance and resistance to continuous weathering.

### LACKPOXI N 2198




- Aliphatic isocyanate shop primer with fast drying and excellent adhesion to nonferrous surfaces, such as aluminum, galvanized steel, lead, copper, brass and fiberglass.

### Painting Scheme for Transformers

Recommended Use		Surface Preparation	Primer		Intermediate Coating		Topcoat	
			Lines	µm	Lines	µm	Lines	µm
Urban and industrial environments of medium aggressiveness.	Internal	Blasting Sa 2 ½	W-POXI TFP 304	40 - 50	-	-	-	-
Marine or highly aggressive environments	External	Blasting Sa 2 ½	STARZINC 122 N 1277	65 - 120	W-POXI MCP 312	85 - 150	W-THANE HBA 503	75 - 125
Medium aggressiveness environments			W-POXI ERP 305	85 - 120	-	-	W-THANE HBA 503	75 - 125
Urban and industrial environments of medium aggressiveness for galvanized steel substrates		Physicochemical cleaning / sanding	LACKPOXI N 2198	25 - 30	-	-	W-POXI TFP 304	40 - 50
Medium aggressiveness environments with galvanized steel substrates					W-POXI ERP 305	85 - 150	W-THANE HBA 503	75 - 125

Note: The schemes submitted are designed to ideal conditions of application. Under different conditions and schemes, please contact WEG Coatings technical department.

### Varnishes for Transformers

Product	Characteristic	
LACKTHERM 1355	F Class oven-cured impregnation varnish for oil transformers.	
LACKTHERM 1303	Class B air drying impregnation varnish for small transformers (electronics industry).	
LACKTHERM 1351	F Class air drying impregnation varnish for oil transformers.	

## Solutions for Solar Energy

The sun is an inexhaustible source of energy, and Brazil has an enormous potential for harnessing it. WEG uses its experience and technology to provide a complete coating solution for fastening structures of photovoltaic system plates, which are made of carbon steel, galvanized steel or aluminum. The coatings of those structures are intended to promote durability against the actions of weather, winds or storms, which cause corrosion and can displace the parts attached to them.

Photovoltaic systems have an average service life of 25 years and their structures need to ensure high durability and resistance for a similar period, whether in large solar plants or small distributed generation projects, even under adverse weather conditions.

### W-POXI ZSP 315 N1277

- Zinc-rich polyamide epoxy primer.

### WEGTHANE HPA 501

- High solids aliphatic acrylic polyurethane topcoat with excellent color and gloss retention as well as chemical resistance.

### W-POXI ERP 322

- High solids bicomponent polyamide epoxy primer with zinc phosphate-based anticorrosive pigments, fast drying and good applicability. It has excellent adhesion to carbon steel treated by abrasive blasting.

Application	Surface Preparation	Primer			Intermediate Coating			Topcoat		
		Coats	Line	μm	Coats	Line	μm	Coats	Line	μm
Carbon steel structures	Blasting Sa 2 ½	1	W-POXI ZSP 315 N1277	70	1	W-POXI ERP 322	150	1	WEGTHANE HPA 501	60
Galvanized steel structure	Physicochemical cleaning / sanding		LACKPOXI N2198	15						
Aluminum structure	Physicochemical cleaning		-	-						



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