

Solutions for Sugar and Ethanol Plants

Industrial Motors

Commercial & Appliance Motors

Automation

Digital & Systems

Energy

Transmission & Distribution

Coatings

High-performance coatings that ensure **higher productivity.**



Driving efficiency and sustainability



Solutions for **Sugar and Ethanol Plants**



**Quality and
protection for
the industry**

WEG provides a wide range of anticorrosion products for the Sugar and Ethanol segment. **WEG** product line ranges from products for outdoor areas, metal structures, storage tanks with potability certification to special formulations designed for areas with high operating temperatures above 392 °F.



For the Sugar & Ethanol industry, the concern with quality and durability is essential in providing complete coating solutions for large companies, especially for the food and beverage industries.

The production and storage processes in this industry require high-performance coatings to protect assets and prevent corrosion, all with the aim of reducing costs with paint repairs and avoiding unscheduled downtime, increasing the interval between maintenance.

When industrial equipment is protected with high-performance coatings, these problems are avoided, ensuring greater productivity in day-to-day operations. WEG has an extensive supply history, making it the ideal partner for industrial maintenance coatings in this segment.

High performance coatings for all stages of the production process

Phenolic Epoxy for
Tanks and Equipment

Coatings for High
Temperature

Coatings
for Floors

Super fast drying epoxy for
structures in general

TECHNOLOGY AND PROTECTION

In addition to the painting schemes mentioned, WEG also has innovative products applicable to a series of plant structures.

W-FENÓXI HT

Product for protecting steel against chemical aggression from products such as solvents, alcohol, gasoline and other petroleum by-products. It allows high-build application (up to 11.81 mils).

- Recommended for the protection of tanks, pipes, metal structures, especially in the storage of food and drinking water.

NOVOLAC EPOXY

WEGPOXI BLOCK N 2912 Type II and Type III is a high-build Novolac epoxy direct to metal. This formulation provides the substrate with an excellent protective barrier, as well as great resistance to abrasion and impact. It complies with Petrobras Standard N 2912.

- Greater anticorrosion performance, greater durability and very low solvent content (Low VOC).

INDUSTRIAL FLOORS

Complete solutions for industrial floors, combining productivity and aesthetics, the following products stand out:

- *W-POLI ANA 455 NOBAC: Self-leveling urethane with antimicrobial function;*
- *W-POXI DFA 301: Epoxy available in different colors;*
- *W-POXI HBA 301: High performance finish;*
- *W-THANE ADA 502 / W-POXI ADA 314: Anti-slip epoxy or PU coatings.*

- See the full catalog:



METAL STRUCTURES

Product lines for all types of environment classification, according to ISO 12944.

- *W-POXI ERP 322: Primer for outdoor environments and anticorrosive pigmentation based on zinc phosphate;*
- *WEGPOXI CVD 323 / 322: Indoor primer with excellent adhesion to carbon steel;*
- *W-THANE SRD 501: Dual function polyurethane;*
- *WEGTHANE HPA 501: High-solids, aliphatic, acrylic, polyurethane topcoat.*

- See the full catalog:



**Antifungal PU
finish**



EXTERNAL PAINTING - GENERAL STRUCTURE OF THE PLANT

CONVENTIONAL SCHEMES

System composed of alkyd coatings, recommended for painting the general structure of the plant and carbon steel equipment that work at temperatures of up to 194 °F, are not subject to abrasion and are located in low-aggression environments.

HIGH PERFORMANCE SYSTEM

Alternative scheme that resists severe weathering conditions, composed of epoxy primer and aliphatic acrylic polyurethane topcoat with color and gloss retention, providing greater paint durability and easy cleaning.

Equipment Area	Surface Preparation	Primer Painting		Topcoat Painting	
		Product	mils	Product	mils
Carbon steel - external part of: Fertilizers, scales, sugarcane sheds, biodigesters, wine pumps, centrifuges, gas recovery columns, handrails, decanters, deaerators, diffusers, tubs, stairs, metal structures, sugarcane mills, electrical panels, sieves, choppers, pre-evaporators, overhead cranes, gearboxes, dryers, sugar silos, tanks, towers, conveyors, pipes, valves etc.	St 3	W-LACK CVP 115	1.57	W-LACK SRA 111	1.57
		W-LACK HPD 151 (Dual Function Enamel - Direct to Metal)		1.57	
	Sa 2 ½	W-POXI ERP 322	4.72	W-THANE ONA 501	1.97

COATING OF TANKS

Tanks to store alcohol or vinasse are subject to the aggression of the content, because of the water produced by condensation. In addition, the tank must prevent the evaporation of the stored product as much as possible. In order to meet such requirements, WEG recommends:

Equipment Area	Surface Preparation	Primer Painting		Topcoat Painting	
		Product	mils	Product	mils
Alcohol tanks - inside (full length)	Sa 2 ½	WEGPOXI BLOCK N 2912 Type II	17.72	-	-
		W-FENÓXI HT	11.81	-	-
Alcohol tanks - outside	St 3 or Sa 2 ½	W-POXI ERP 322	5.91	W-THANE HPA 501	2.56
Effluent treatment tanks inside	Sa 2 ½	WEG TAR FREE WT	15.75	-	-

AREAS WITH TEMPERATURES ABOVE 392 °F

In addition to the conventional painting schemes, WEG Coatings have solutions that provide greater resistance for areas subject to high temperatures.

W-TERM CVA 660

Modified silicone-based, single-component topcoat, resistant to temperatures up to 1112 °F, which can be applied directly to carbon steel.

ZINC ETHYL SILICATE N 1661 + W-TERM HPA 660 1112°F

Coating system resistant to temperatures up to 932 °F, it combines single-component, modified silicone-based topcoat with inorganic zinc primers, forming a high performance system regarding corrossions and high temperatures. It can be applied directly to steel in a single coat.



Equipment Area	Surface Preparation	Primer Painting		Topcoat Painting	
		Product	mils	Product	mils
Carbon steel - outdoor - areas with temperatures up to 1112 °F: Juice heaters, soot blowers, piping, boilers, chimneys, pre-air, steam turbine, various types of equipment.	Cleaning and degrease	-	-	W-TERM CVA 660	0.98
Carbon steel - outdoor - areas with temperatures between 302 °F and 932 °F: Juice heaters, soot blowers, piping, boilers, chimneys, pre-air, steam turbine, various types of equipment.	Sa 2 ½	Zinc Ethyl Silicate N 1661	2.95	W-TERM HPA 660	0.98

CONCRETE STRUCTURES

These systems provide good performance on concrete substrates, providing high chemical resistance, abrasion resistance and impermeability.

Equipment Area	Surface Preparation	Primer Painting		Intermediate Painting		Topcoat Painting	
		Product	mils	Product	mils	Product	mils
Concrete - outdoor Equipment bases, vinasse gutters, vinasse buffer tanks and effluent treatment tanks	Washing with high pressure water, detergents and solvents	W-POXI HSS 301	0.98	WEG TAR FREE WT	7.87	WEG TAR FREE WT	7.87
Concrete - outdoor Ramps - slippery areas				-	-	W-POXI ADA 314	19.69

SPECIAL STRUCTURES

Some areas of the plant have special protection and finishing needs:

Equipment Area	Surface Preparation	Primer Painting		Topcoat Painting	
		Product	mils	Product	mils
Milling Housing	Sa 2 ½	WEG FENOXI	5.91	WEG FENOXI	5.91
Diffuser Internal Part	Sa 2 ½	WEGPOXI BLOCK N 2912 TIPO II	17.72	-	-
		WEG FENOXI	5.91	WEG FENOXI	5.91
Gas Scrubber Internal Part	Sa 2 ½	WEG TAR FREE N 2851	5.91	WEG TAR FREE N 2851	5.91
		WEGPOXI BLOCK N 2912 TIPO III	17.72	-	-

STRUCTURES FOR CONTACT WITH FOOD

Systems suitable for internal painting of tanks for drinking water, alcoholic foods and non-fatty food products. They are certified by the ADOLFO LUTZ and ITAL institutes.

Equipment Area	Surface Preparation	Primer Painting		Topcoat Painting	
		Product	mils	Product	mils
Carbon steel - Internal areas in contact with food. Temperatures up to 120 °C	Sa 2 ½	WEG FENOXI	5.91	WEG FENOXI	5.91



Surface preparation

WEG Coatings Painting

Corrosion Protection

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



www.weg.net

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COATINGS



 +55 (47) 3276.4000

 tintas@weg.net

 Guaramirim - SC - Brazil ☎ +55 (47) 3276.4000

Mauá - SP - Brazil ☎ +55 (11) 4547.8100

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

Betim - MG - Brazil ☎ +55 (31) 3208.0580

Buenos Aires - Argentina ☎ +54 (11) 4259.8000

Atotonilco de Tula - Mexico ☎ +52 (55) 5321.4231

Atlanta - USA ☎ 1-800-ASK-4WEG