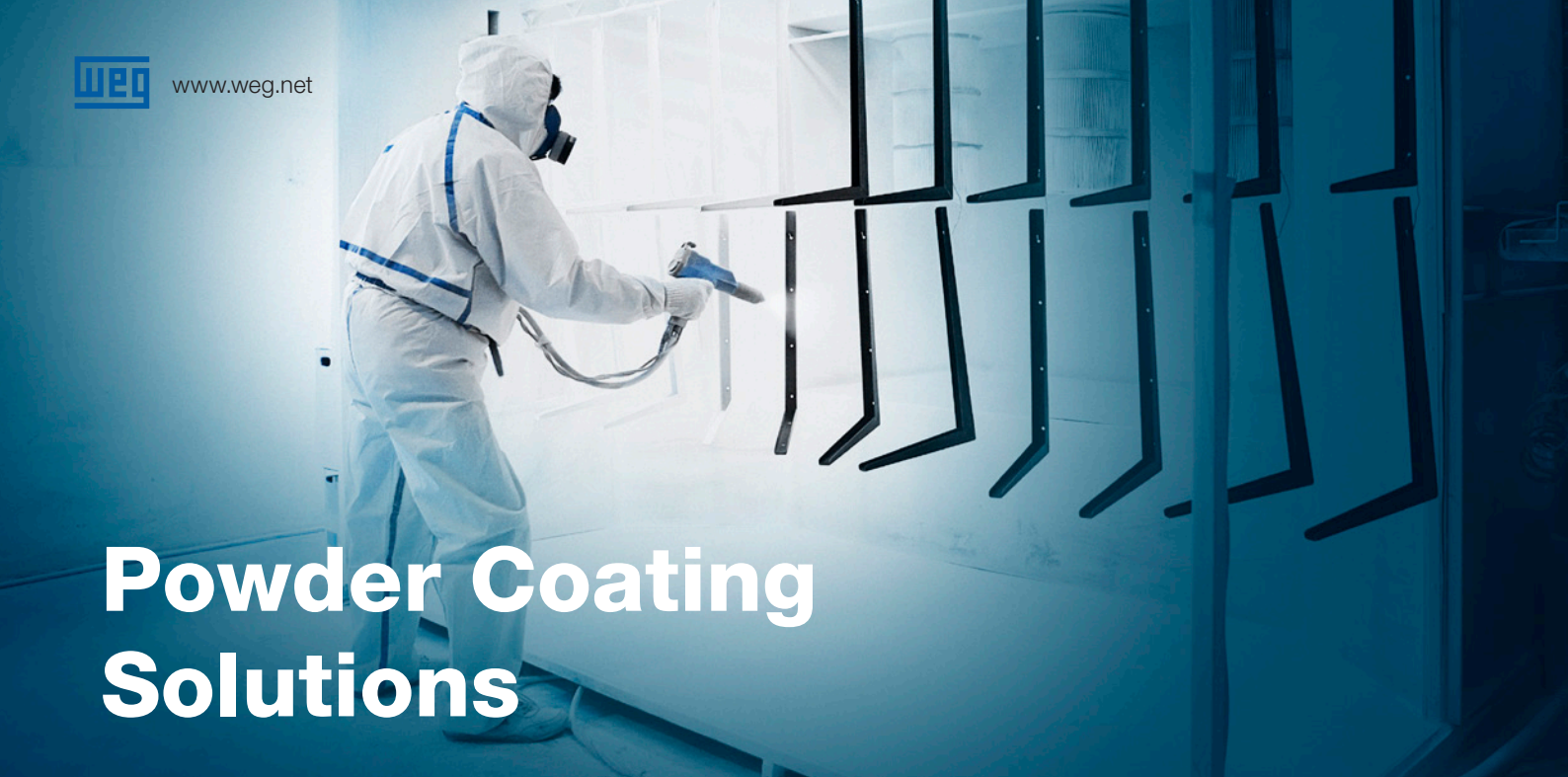


# Powder Coating Solutions

Complete line of powder coatings with international quality certification



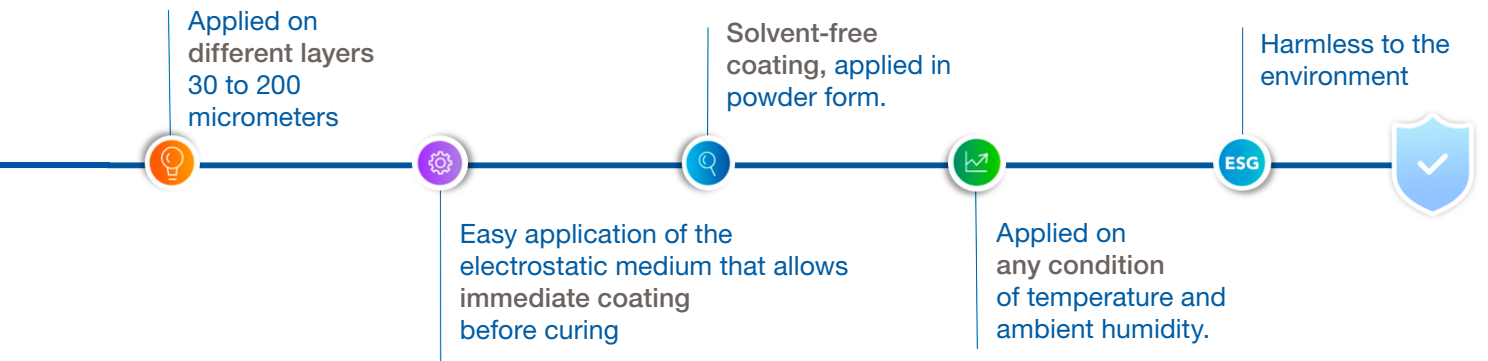
Motors | Automation | Energy | Transmission & Distribution | Coatings



# Powder Coating Solutions

For painting household appliances, aluminum profiles, lamps, auto parts, metal structures, tiles, machinery and equipment, among others. WEG offers a diversified line of powder coatings with state-of-the-art technology and lines with international quality certifications.

## BENEFITS



## PRODUCT LINE

### Polyester for indoor environments

Recommended for surfaces not directly exposed to sunlight and where high resistance of glossy to ultra-matte finishes to yellowing is desired.

### Polyester for outdoor environments

Recommended for surfaces that are exposed to continuous weathering.

### Hybrid

Combination of EPOXY / POLYESTER resins that offers proper resistance for indoor environments.

### Epoxy

Recommended for surfaces not directly exposed to sunlight and where high chemical resistance is required.

### Finish Types

- Cracked
- Textured
- Micro-textured
- Smooth
- Metallic smooth
- Hammertone
- Wrinkled

### Gloss Degrees

- Gloss
- Semi-gloss
- Semi-matte
- Matte
- Ultra-matte



## SPECIAL PRODUCTS

### WF

Durable, high-performance polyester line, combined with selected pigments highly resistant to weathering, especially developed for manufactured goods intended for architecture and civil construction.

### WFS

Super durable polyester line with excellent weathering resistance and greater gloss and color retention than the durable polyester line. Some products are UL certified.



### WFS Sublimação

Through the sublimation process applied to aluminum surfaces, effects such as wood, stone or corten steel can be obtained with high quality and resistance.

### Polytherm Architech WFQ

The Politherm Architech WFQ line gathers polyester-based products whose main advantage is the Qualicoat certification.



### W-Eco

Heavy metal-free line that provides durability and safety. It meets the European RoHS directive and the NBR NM 300-3:2004 standard.



### Anticorrosive

Powder coatings with and without zinc highly resistant to corrosion by barrier or cathodic protection mechanism. Painting schemes that meet ISO 12944 in various environmental conditions.

### Low Bake/ Ultra Low Bake

Low bake and ultra low bake powder coatings are recommended for substrates that are sensitive to conventional curing temperatures, also promoting reduced energy costs and increased productivity.

### High Build

Line that allows thicker films in just one application, replacing some double-layer applications. In addition, it has greater power to cover edges and can be used as an option for some painting schemes with liquid coatings.

### TF - TGIC Free

Durable and super durable industrial and architectural polyester line free of TGIC crosslinker, complying with European legislations.

### Polyester for indoor application

Polyester line specially developed for indoor environments with excellent adhesion and resistance to yellowing.

### Automotive

Line of products approved for auto parts and wheels, meeting various specific standards of the automotive segment.

### Bicycles

Line developed for the bicycle segment with new colors in "bubble gum" tone and new clearcoat that allows the use of stickers with excellent adhesion to the finished product.

### Contact with water and food

Products with potability certification widely used in the water treatment and distribution segment and in applications in contact with food in general.

### NOBAC®

Line that features several resin systems with antimicrobial action. Recommended for segments related to health, industrial and home kitchens, bathroom fittings, among others.

### New Tech

New line of powder coatings with nanomaterials that promote greater corrosion resistance, among other properties.

## WF LINE

Durable, high-performance polyester line, combined with selected pigments highly resistant to weathering, especially developed for manufactured goods intended for architecture and civil construction.

### APPLICATION AND COMPETITIVE ADVANTAGES:

- Recommended for metallic substrates (aluminum, carbon steel, galvanized steel) and ceramic tiles;
- The most reputable line in the national market, with a track record of use in several segments;
- Available in different colors and finishes;
- High color and gloss retention.



## WFS LINE

The WFS Superdurável line is recommended for metallic structures, aluminum frames, agricultural implements, among others. This line provides greater weathering resistance than the durable architectural polyester, withstanding up to 3,500 hours in the UV-A radiation test (durable polyester is around 1,000 hours).

### APPLICATION AND COMPETITIVE ADVANTAGES:

- High standard finish;
- Different colors and finishes;
- Line formulated with top quality raw materials and special pigments;
- Also recommended for the segments of agricultural implements, road implements and generator sets;



## WFS SUBLIMATION LINE

The WFS Sublimation line is a unique national technology that allows picking from nature the hues, tones, and contrasts of wood, stone, and corten steel and using them in aluminum profiles and surfaces for facades, doors, windows, and much more through the sublimation process.

### MORE THAN 4,000 EFFECTS AVAILABLE—CHECK OUT SOME EXAMPLES:



## POLITHERM ARCHITECH WFQ

The WEG Coatings architecture line was specially developed to give aluminum profiles the touch of style and sophistication that your building deserves. Recommended for painting aluminum profiles, ceramic or metallic tiles exposed to the effects of weathering, the line has international Qualicoat certification.

### BENEFITS:

- Aluminum profiles replace with numerous advantages the traditional means of assembly that use welded steel profiles;
- Good chemical resistance, excellent adhesion, flexibility and yellowing resistance.
- Greater gloss and color retention compared to polyester-based coatings.



### PRODUCTS WITH CERTIFICATION



Politherm	License	Finishing	Durability
96 WFQ	P-1031	SMOOTH GLOSSY*	DURABLE
96 WFQ MATT	P-1717	SMOOTH MATTE*	DURABLE
106 WFQ	P-1615	SMOOTH GLOSSY	SUPER DURABLE
99 WFQ TGIC FREE	P-1765	SMOOTH GLOSSY	DURABLE - WITHOUT TGIC
96 WFQ MICROTTEXTURE	P-1858	MICRO-TEXTURED MATE*	DURABLE

\* With metallic color option.

## W-ECO

For specific market conditions where heavy metal-free coatings are required, WEG developed the W-Eco and W-Eco R coatings. The W-Eco line complies with NBR NM 300-3:2004 standard in the item heavy metal free, and the W-Eco R line also complies with RoHS directive.

### RECOMMENDED FOR:

- Furniture for schools and kids;
- Tubular furniture;
- Toys;
- Household utensils;
- Painting of metal parts;
- Machines and equipment in general;
- Equipment for exportation (requirement on the foreign market).



## ANTICORROSIVE

Powder coatings used as primers rich in zinc with high corrosion resistance by the cathodic protection process, recommended for neutral environments and with high salinity, such as metallic structures near the sea. This line is also composed of zinc-free powder coatings used as a primer and/or finish with high corrosion and chemical resistance through the barrier protection process, recommended for aggressive environments with continuous exposure to salinity, alkalinity or acidity.

### CATHODIC PROTECTION PRIMERS

- Zinc-rich epoxy (code 10005667) - Higher percentage of zinc;
- Zinc-rich epoxy (code 15713886) - Lower percentage of zinc.

### BARRIER PROTECTION PRIMERS/ TOPCOATS

- Anticorrosive epoxy (code 10005677) - Complies with Petrobras N-2841 standard;
- Anticorrosive epoxy (code 16371521) - Complies with ISO-12944-6, C5 High environment.

### TOPCOATS

- Anticorrosive hybrid
- Anticorrosive durable polyester
- Anticorrosive super durable polyester



Note: Available in conventional layer or high build versions.

## LOW BAKE / ULTRA LOW BAKE

The low bake powder coatings are recommended for applications in which the cure is not possible within the time specified for conventional powder coatings due to characteristics of the substrate or specific features of the production process, such as:

<b>Cold oven</b>	Oven cannot reach the ideal curing temperature of the coating.
<b>Too thick and heavy parts</b>	Coating of different types of parts (size and thickness), thus requiring a longer stay in the oven to cure the coating.
<b>Gain in productivity</b>	Increased speed of the coating line and greater productivity. In real situations, the process speed can be increased by 50%.
<b>Energy savings</b>	The lower temperature will reduce the gas and electric energy consumption.
<b>Substrates sensitives to heat</b>	Some metal alloys and other types of substrate which do not withstand the temperature of 200°C.



See the table below for the minimum curing temperature of the coatings:

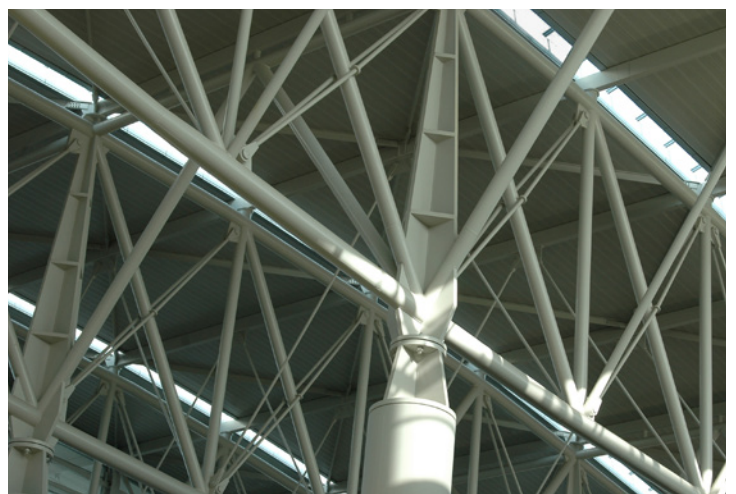
Low Bake Coating	Minimum temperature	Ultra Low Bake Coating	Minimum temperature
Epoxy System	180 °C	Epoxy System	130 °C
Hybrid System	180 °C	Hybrid System	140 °C
Polyester System	180 °C	Polyester System	150 °C

## HIGH BUILD

Line that allows thicker films in just one application, replacing some double-layer applications. In addition, it has greater power to cover edges and can replace painting schemes with liquid coatings in specific cases.

### APPLICATION AND COMPETITIVE ADVANTAGES:

- Applied in layers from 100 to 200 micrometers;
- Better edge coverage;
- Suitable for various segments of the industry;
- Protective film with high flexibility, adhesion and abrasion resistance.



## TF - TGIC FREE

New technology developed by WEG of durable and super durable polyester resin-based powder coatings free from the TGIC (Triglycidyl Isocyanurate) crosslinker. It has excellent transfer properties to the painted part, in addition to excellent coverage on corners. Suitable for painting parts with many edges and cuts. It complies with the legislation of the European Union, Colombia and Australia.

### APPLICATION AND COMPETITIVE ADVANTAGES:

- Forms a high UV resistant film, for external and internal applications;
- Finish similar to conventional coating and slightly better electrostatic transfer;
- Suitable for companies that export to the European Union, Colombia or Australia;
- Available in low bake version (10' at 180°C);
- Cost similar to conventional powder coating.



## POLYESTER FOR INDOOR ENVIRONMENTS

Polyester line specially developed for indoor environments with excellent adhesion and resistance to yellowing. Available in a variety of finishes, from glossy to ultra-matte.

### APPLICATION AND COMPETITIVE ADVANTAGES:

- Application in indoor environments without exposure to weathering;
- Good resistance to yellowing, adhesion and flexibility.
- Available in Ral and Munsell colors or according to the customer's standard.



### PRODUCTS

Product	Resin/Crosslinker	Curing
POLITHERM 76	Polyester - TGIC	10' - 200 °C
POLITHERM 77	Polyester - TGIC	10' - 180 °C
POLITHERM 79 TF	Polyester - TGIC free	10' - 180 °C





# AUTOMOTIVE

Line of products approved for auto parts and wheels, complying with various specific standards of the automotive segment.

## APPLICATION IN AUTO PARTS:

- Aluminum wheels;
- Crankcase protector;
- Oil filters;
- Fire extinguishers.



## PRODUCTS

Product	Function	Color	Code
POLITHERM 22 R LI CINZA PRIMER RODAS BR	Wheel Primer	Gray	12780035
POLITHERM 22 R LI PRETO BLACK NINJA PRIMER RODAS BR	Wheel Primer	Black	15951090
POLITHERM 22 R LI CINZA GRAFITE PRIMER RODAS BR	Wheel Primer	Graphite	15929181
POLITHERM 86 WFS R LI VERNIZ INCOLOR RODAS BR <small>*Complies with standards: VW TL-239, Honda 4271Z-T4N-H00, PSA B15 5260 and Toyota TIS 01202-00D96-H</small>	Wheel Clearcoat	Colorless Glossy	14158666
POLITHERM 46 WF R LI VERNIZ INCOLOR RODAS BR	Wheel Clearcoat	Colorless Glossy	16191336
POLITHERM 86 WFS R LI VERNIZ INCOLOR RODAS FO	Wheel Clearcoat	Colorless Matte	15774166
POLITHERM 46 WF R LI VERNIZ INCOLOR RODAS FO	Wheel Clearcoat	Colorless Matte	16368318
POLITHERM 86 WFS R LI PRETO PRIMER ACABAMENTO RODAS BR	Primer/Topcoat	Black Glossy	13709006
POLITHERM 86 WFS R MT PRETO UF <small>*Complies with standards: FIAT 9.55842, class D1B.</small>	Auto Parts Topcoat	Black	16107674

# BICYCLES

Politherm Line for painting bicycle parts with bright colors in a “bubblegum” tone, especially developed for this market segment.

## APPLICATION AND COMPETITIVE ADVANTAGES:

- Excellent resistance to physical impacts, does not chip, does not tear and does not peel;
- Great color and gloss retention, UV resistance;
- New matte clearcoat, low bake, it allows the use of stickers without loss of adhesion.



## PRODUCTS

Product	Color	Code
TP 76 R LI ROSA CHICLETE 81991 BR	Bubblegum Pink	15116115
TP 26 R LI VERDE CHICLETE FLUORESCENTE 54810 BR	Bubblegum Green	15934861
TP 76 R LI AZUL CHICLETE FLUORESCENTE 40504 BR	Bubblegum Blue	16498877
TP 76 R LI LARANJA CHICLETE FLUORESC 29902 BR	Bubblegum Orange	16490279
TP 76 R LI AMARELO CHICLETE FLUORESCENTE 20885 BR	Bubblegum Yellow	16527833
TP 29 R LI VERNIZ INCOLOR 00010 UF	Colorless	15732514

# CONTACT WITH WATER AND FOOD

Products with potability certification widely used in the water treatment and distribution segment and in applications in contact with food in general.

## APPLICATION AND COMPETITIVE ADVANTAGES:

- Easy application and fast curing for water valves;
- High-durability barrier protection.



## PRODUCTS

Product	Approval	Code
POLITHERM 55 HB R LI AZUL W RAL 5005 BR	Technical Standard SABESP NTS 036 and complies with NSF/ANSI 61 - 2016, Drinking Water System Components - Health Effects	14004514
POLITHERM 55 HB R LI AZUL W RAL 5017 BR		14584617
POLITHERM 25 R LI BRAN CONTATO ALIMENTO 60132 BR	Resolution Collegiate Board No. 52 (Nov/2010) of the National Health Surveillance Agency - ANVISA	15588308

# NOBAC®

NOBAC® coatings have antimicrobial action, that is, they inhibit the proliferation of bacteria on the painted surface with proven performance according to JIS Z 2801. It maintains the property of inhibiting the proliferation of microorganisms on the painted surface throughout its useful life, as it is incorporated into the paint and is not removed by leaching.

## RECOMMENDED FOR:

- Medical and dental equipment;
- Air conditioning units;
- Steel furniture and kitchens;
- Appliances and household utensils;
- Veterinary equipment;
- Bathroom fittings;
- Door locks;
- Stair hand rails and others.



## NOBAC PRODUCT LINE®

<b>POLITHERM 30 NOBAC® HÍBRIDO</b>	Combination of epoxy/polyester resins. Recommended for indoor environments.
<b>POLITHERM 34 NOBAC® EPOXI</b>	Excellent for indoor applications. Excellent anticorrosive protection.
<b>POLITHERM 36 NOBAC® POLIÉSTER</b>	Recommended for surfaces exposed to continuous weathering.

## NEW TECH

In our laboratories and through partnerships with research institutions, we continually invest in the development of new technologies, such as nanomaterials, which enhance the corrosion resistance of our products. The new ***New Tech powder coatings are used in various industrial sectors.***

## LABORATORY AND EQUIPMENT

We have the most advanced equipment and a team of researchers specialized in controlled tests such as: spectrophotometers for color analysis, accelerated UVA/UVB weathering tests, accelerated corrosion tests, dynamic-mechanical analysis, spectroscopy, thermal analysis, degradation analysis, bending, rheology, among others.



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The values shown are subject to change without prior notice.

The information contained is reference values.