

EF-SERIES™

THERMOSET POWDER COATINGS

The Protech Group's EF-SERIES™ offers an exceptional coating solution designed for high corrosion and chemical resistance needs. These powders can serve as a single-coat protective application or function as the base coat in a three-coat system. EF-SERIES™ powders are formulated to provide a flexible yet highly durable finish. These epoxy powders have also proven to provide superior adhesion properties and superior resistance to delamination and cathodic disbandment.



OVERVIEW

Functional Epoxy Thermoset Powder Coatings.

EF-SERIES™ complies with ASTM 775-86 and ASTM 775-89 and has received approval from the U.S. Federal Highway Administration for use as a protective coating on shotblasted reinforcing bars. This series is also an excellent choice for metal packaging in the cosmetic, pharmaceutical, chemical, and food sectors. The powders are entirely impermeable, ensuring that

the metal packaging does not interact with its contents. EF-SERIES™ coatings are 360° powders, allowing for uniform application across the entire inner surface of the substrate. These inert powders meet the standards set by global regulatory bodies, including the FDA, and exhibit outstanding abrasion and chemical resistance.

MAIN FEATURES

- **Superior Corrosion Resistance** – Protects in harsh and humid environments.
- **Chemical Resistance** – Resists acids, alkalis, and solvents.
- **Strong Adhesion** – Bonds well to pretreated metal surfaces.
- **High Film Build** – Allows thick, protective coating in one pass.
- **Electrical Insulation** – Suitable for electrical applications.
- **Durable Surface** – Resists impact, abrasion, and wear.
- **Smooth Finish** – Delivers consistent, even coverage.
- **Certified Options** – Includes BELGAQUA, FDA, and Qualisteelcoat approved products.
- **Custom Formulations** – Specific industry and performance needs.

TYPICAL APPLICATIONS

- **Pipe and Tank Coatings** – Gas and oil pipelines, water and wastewater pipes, underground storage tanks, pressure vessels
- **Industrial Equipment and Machinery** – Pump housings, gearboxes, motor casings, valves and fittings
- **Electrical and Electronic Components** – Motor windings, busbars, circuit board components, transformer cores
- **Structural Steel** – Rebars, structural beams and supports, bridge components
- **Flooring Systems (as primer/base)** – Concrete primer for epoxy floor systems, industrial floor base coats, parking garages, factory floors
- **Appliance and White Goods (Functional Use)** – Washer and dryer frames, internal components requiring corrosion protection, HVAC housings
- **Automotive and Heavy Equipment Parts** – Chassis components, engine brackets, suspension parts



OUR SOLUTIONS

We offer a range of functional epoxy powder coatings engineered for superior protection in demanding industrial environments. From corrosion resistance to chemical durability, our solutions support applications across various sectors, including infrastructure, oil and gas, waterworks, and heavy equipment.

TECHNICAL PROPERTIES

Essential technical details are outlined below. Full Technical Data Sheet (TDS) available upon request.

PRE-TREATMENT	For steel and aluminum: Phosphating or Zirconium or other suitable surface treatment
APPLICATION CONDITIONS	Electrostatic powder spray 40 to 100 kv
FILM THICKNESS	For normal usage 1.5 to 4.0 mils (color and finish type related)
SPECIFIC GRAVITY	1.2 to 1.75 (color related)
COVERAGE	160 to 110 ft ² / lbs / mil at 100% efficiency (color related)

RELATED EUROPEAN PRODUCTS

EF33 – OXYPRIM	Standard Degassing Primer: Cure 10 min @180°C - Ideal for aluminum and steel as well as porous metals like cast iron.
EF36 – GREENPRIM	Low-cure Degassing Primer: Cure 10 min @170°C, Ideal for MS2 & HD2 steels, Qualisteelcoat & GSB-914b certified.
EF17 – ULTRAPRIM	Low-cure Degassing Primer: Cure 10 min @170°C, Ideal for MS2 & HD2 steels, Qualisteelcoat & GSB-914b certified.
EF26 – DRYPRIM	Pure Epoxy Primer: Dry-on-Dry application - Curing is based on the topcoat, suggested: PE40.AG (10 min @ 160°C)
ZINCOPRIM	Zinc-Rich Primer: Cure 10 min @180°C or 10 min @160°C (Depending on Formula) - Ideal for shot-blasted steel.



FORMULATING THE RIGHT MIX.

Since 1976, the Protech Group has been developing and manufacturing coatings, paints, and specialty materials. Through quality and innovation, we formulate the right mix to protect and enhance what matters most to our customers. Protech Group products are manufactured in more than 20 sites worldwide. We serve our customers in countless markets and industries, including construction, infrastructure, transportation, consumer goods, and healthcare.



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