

# E-BOND+

THERMOSET POWDER COATINGS

E-Bond+ represents the next generation of bonded metallic powder coatings, developed by The Protech Group to deliver enhanced consistency, performance, and efficiency. By improving the way metallic pigments interact with the base powder, this advanced technology ensures a more stable application process and a uniform, high-quality finish that is ideal for demanding industrial and architectural applications where aesthetics and reliability are critical.



## OVERVIEW

# Bonded Metallic Thermoset Powder Coatings

At the core of E-Bond+ is an optimized bonding process performed as a precise, controlled step in manufacturing. Metallic or special-effect pigments are thermally fused to a high-performance base powder under carefully managed temperature and dwell time conditions. This results in superior

pigment adhesion, improved fluidization, and minimized pigment separation. The outcome is better reclaim control, reduced segregation during storage and handling, and consistent, durable finishes from part to part, ultimately improving coating quality while reducing waste.

## MAIN FEATURES

- **Uniform metallic or pearlescent finish** — Consistent, high-quality appearance
- **Enhanced electrostatic transfer efficiency** — Better coverage, less waste
- **Excellent batch-to-batch consistency** — Reliable colour and effect
- **Low pigment separation in reclaim/recycle systems** — Maintains metallic integrity
- **Optimized reclaimability** — Reduces material waste
- **Improved part-to-part consistency** — Uniform results across parts
- **Enhanced sprayability** — Smooth, stable application
- **Reduced segregation** — Maintains powder uniformity

## TYPICAL APPLICATIONS

- **Architectural Applications** — Aluminum profiles, curtain walls, façade panels, window and door frames (AAMA 2604/2605)
- **Appliances & Electrical Enclosures** — High-end appliances, housings, control panels, consumer electronics
- **Outdoor & Indoor Furniture** — Patio furniture, office furniture, shelving, decorative fixtures
- **Automotive & Transportation** — Trim components, wheels, accessories, interior metal parts
- **Lighting & Fixtures** — Light housings, reflectors, decorative lighting elements
- **Retail & Display Systems** — Store fixtures, shelving units, point-of-purchase displays
- **General Industrial & Decorative Metal** — Equipment panels, railings, metal fabrications requiring premium metallic finishes

## TECHNICAL PROPERTIES

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

PRE-TREATMENT	For steel and Aluminum—Phosphating, Zirconium or other suitable surface treatment
APPLICATION CONDITIONS	Electrostatic powder spray 40 to 100 kv
FILM THICKNESS	For normal usage 2.0 to 5.0 mils (color and finish type related)
HARDNESS	HB to 4H (formulation related)
SPECIFIC GRAVITY	1.2 to 1.75 (color related)
COVERAGE	160 to 110 ft <sup>2</sup> / lbs. / mil at 100% efficiency (color related)
BAKING SCHEDULE	METAL TEMPERATURE (formulation related) 8-10 minutes at 280°F (138°C) Super low temperature cure 8-10 minutes at 320°F (160°C) Low temperature cure 2-6 minutes at 400 (205°C) Fast cure 7 minutes at 400°F (205°C) Regular cure 8+ minutes at 400F (205°C) Slow cure

## 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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