

CONSUMER GOODS & APPLIANCES



In today's trend-driven world, everyday products must be as visually appealing as they are functional. Whether it's furniture, appliances, or leisure items, the right combination of stylish colors and finish effects can significantly enhance daily life. Our coatings are designed to protect against routine wear and tear, while our expertly formulated colors ensure your products not only perform well but also stay ahead of style trends, helping them stand out in a competitive market.



VELVACOAT™

FEATURED SOLUTIONS

THERMOSET POWDER COATINGS

E-BOND™

E-BOND™ is formulated with special effect pigments such as aluminum to create a unique metallic appearance. These pigments are combined with base powders by using a patented bonding technique.

- Unique special effect finish.
- Excellent hardness and stain resistance.
- Bonded formula for easier application.
- Cost efficient alternative to high-end finishes.
- Flexible application for indoor or outdoor use.
- Can be formulated with most Protech Group coatings.

THERMOSET POWDER COATINGS

VELVACOAT™

VELVACOAT™ is a polyester-based coating. It is a clear coat that offers designers and product creators full creative freedom as it can be applied over any base color.

- Unique velveteen feel with fingerprint resistance.
- Excellent overall durability.
- Chemical, corrosion, scratch and chip resistance.
- Easy-to-clean coating with a high-end look and feel.
- Flexible application for indoor or outdoor use.
- Can be formulated with most Protech Group coatings.

THERMOSET POWDER COATINGS

HELIOCOAT®

HELIOCOAT® is specially formulated to protect surfaces at extremely high temperatures. The coating is formulated for excellent adherence that will not crack or delaminate, and will maintain color and gloss.

- Highest heat resistance of any thermoset powder coating.
- Scratch, chip, and corrosion resistance.
- Excellent adhesion and long-term heat resistance.
- Flexible application for indoor or outdoor use.
- Available in four categories based on heat resistance level.

FEATURED SOLUTIONS

THERMOPLASTIC COATINGS

DURAPOL™

DURAPOL™ is formulated with copolymers for higher durometer and adheres as one coat. Designed as an alternative to nylon based coatings, it is formulated to meet the most demanding performance requirements.

- One coat system.
- Heat, corrosion and chemical resistance.
- Superior durability.

SPECIALTY MATERIALS

NATLEX

NATLEX is sourced from natural latex, a milky white liquid that is collected by cutting thin strips in the bark of the Hevea Brasiliensis rubber tree. Natural latex is used extensively in many applications and products, either alone or in combination with other materials.

- Formulated for a wide variety of market applications and processing methods.
- Optimized for applications including cohesives, adhesives, dipping compounds, slush casting, mold making, sealants, binders and coatings.
- Used to produce flexible and durable end products.
- Can be custom formulated as pre-vulcanized compounds.



E-BOND™

APPLICATION MATRIX

	GLASS	RECREATIONAL	APPLIANCES	FURNITURE
THERMOSET POWDER COATINGS				
AG-KOTE™	✗	✓	✗	✓
CURVECOAT™	✗	✓	✓	✓
E-BOND™	✗	✓	✓	✓
EF-SERIES™	✓	✓	✗	✗
HELIOCOAT®	✗	✓	✓	✗
PERMASLIP®	✗	✓	✓	✓
STERILCOAT®	✓	✓	✓	✓
VELVACOAT™	✗	✓	✓	✓
THERMOPLASTIC COATINGS				
DURALON™	✗	✓	✓	✗
DURAPOL™	✗	✓	✓	✗
GLAS-LOK®	✓	✗	✗	✗
POLYARMOR	✓	✓	✗	✗
SPECIALTY MATERIALS				
PLASTISOL	✗	✓	✗	✗
NATLEX	✗	✓	✗	✗



NATLEX

PROVEN PERFORMANCE

We are constantly striving to improve by researching new chemistries to solve whatever challenges our customers present to us. If our current product lines do not suit your exact requirements, we have the ability to custom engineer one that will. Through development, we always deliver the right mix.



HELIOCOAT®

THERMOSET POWDER COATINGS

Thermoset powder coatings, such as E-BOND™, VELVACOAT™ and HELIOCOAT®, are developed and manufactured with state-of-the-art chemistries that comply with the latest environmental and operational regulations.

PRE-TRAITEMENT	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)
HARDNESS	HB to 4H (Formulation related)
SPECIFIC GRAVITY	1.2 to 1.75 (Color related)
COVERAGE	160 to 110 ft² / 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

PROVEN PERFORMANCE

THERMOPLASTIC COATINGS

Thermoplastic coatings, such as WATERARMOR™, can be formulated to be compliant with certain guidelines.

TYPE	METHOD	RESULT
Tensile Strength	ASTM D638	3496 psi (24 MPa)
Elongation	ASTM D638	414 %
Vicat Softening Point	ASTM D1525	162 °F (72 °C)
Impact, Direct/Reserve (inch lbs)	ASTM D2794	160/160
Impact Resistance	ASTM G14 - 04	<77 in.lb. if tup weight 3.2 lb.
Taber Abrasion	ASTM D4060	28 mg loss, CS10 wheel & 61 mg loss, CS17 wheel
Adhesion	ASTM D4541	>2000 psi (13.78 MPa)
Cathodic Disbondment	ASTM G95-07	5 mm Average Radial Dispondment
Flexibility	ASTM D522	1/8 in (3.2 mm), no cracks (>32%) (Conical Mandrel)
Salt Spray	ASTM B117	>2000 hrs. No significant undercut or creep
Q-Panel UltraViolet (QUV)	ASTM G53	>2000 hrs, No significant change in color or gloss.
High Irradiance Xenon-Arc	JIS K 5600-7-7:2008	>1000 hrs, No significant change in color or gloss.
Humidity Resistance	ASTM D2247	No blistering or loss of gloss after 1000 hours.
Volatile organic compounds (VOCs)		ZERO

SPECIALTY MATERIALS

Specialty Materials, such as PLASTISOL, can be tested on demand for various properties:

- Tensile
- Tear
- Elongation
- Swollen diameter
- Mechanical stability
- Flame retardancy
- Total solids
- Viscosity
- pH
- Hardness
- Bond strength
- Weight per gallon

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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