

THERMOSET POWDER



Thermoset materials are used for the majority of powder coating processes because they can provide a surface layer that is both durable and decorative.

Most thermoset powders have a molecular weight lower than that of thermoplastic materials and higher than that of liquid coatings. Thermosets are solid resins that, when heated, melt, flow, and—unlike thermoplastics—can crosslink with one another or other reactive substances to form compounds with higher molecular weights. After curing, a thermoset coating remains thermally stable, meaning it cannot be melted back into a liquid from further heating.



SOLUTIONS

AG-KOTE™

anti-gassing solution

AG-KOTE™ is a proprietary thermoset powder coating solution that minimizes the formation of craters, pinholes and air bubbles in the coating surface caused by gas or moisture released from porous substrates during the curing process.



- Low temperature curing promotes energy savings and higher productivity when painting large objects.
- Possibility to coat thin and thick material at the same time without colour and effect differences.
- Excellent UV, chemical, and corrosion resistance.
- Can be combined with some other Protech Group coating features.

CLONECOAT™

in-mold solution

CLONECOAT™ is formulated specially to coat parts directly in the mold. This allows the coat to cure and bond to the material as the material itself forms and cures. The end result is an inseparable bond for maximum durability and adherence.

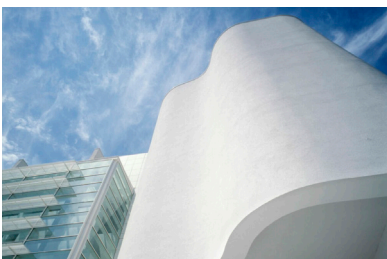


- Covers complex shapes and seals pores and isolates fibers during the molding process.
- Can be used as a primer or as a finished topcoat.
- Excellent durability and chemical, scratch and chip resistance.
- Homogeneous surface due to in-mold chemical reaction.
- May result in more efficient production and cost savings as no ovens are required.
- Can be combined with some other Protech Group coating features.

CURVECOAT™

post-bendable solution

CURVECOAT™ is formulated to combine durability and flexibility. It is the ideal solution for substrates that must be reshaped after being painted, dramatically reducing material handling issues in the manufacturing process.



- One of the most flexible coatings available.
- Excellent overall durability.
- Allows post bending with chip and crack resistance.
- Reduces material handling which may result in reduced transport and packaging costs
- Flexible application for indoor or outdoor use.
- Can be combined with some other Protech Group coating features.

DRIVEKOTE

automotive solution

DRIVEKOTE is a proprietary thermoset powder coating solution that works together with Original Equipment Manufacturers (OEMs) to achieve significant cost and weight savings while increasing overall vehicle strength and rigidity.



- High-grade formulation mixed to withstanding harsh environmental elements and ensure vehicle durability.
- Special corrosion, UV and abrasion resistance.
- One-coat or multi-coat systems available to increase productivity and reduce energy consumption.
- Diverse line of formulations of topcoats, primers and underbody primers for specific requirements.
- Can be formulated to adhere most automotive standards, as a IATF 16949:2016 qualified supplier.

E-BOND™

metallic finish solution

E-BOND™ is an exclusive thermoset powder coating solution which enables a variety of metallic finishes and special effects including sparkles, veins, and hammertones.

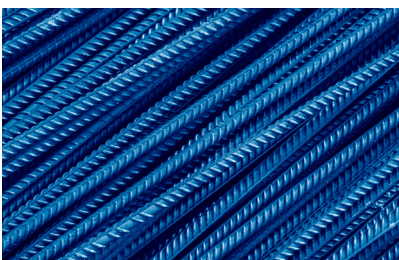


- Unique special effect finish.
- Excellent hardness and stain resistance.
- Bonded formula for easier application.
- Cost competitive alternative to chrome plating.
- Flexible application for indoor or outdoor use.
- Can be combined with some other Protech Group coating features.

EF-SERIES™

functional solution

EF-SERIES™ is a proprietary thermoset powder coating solution for high corrosion and chemical resistant requirements that prevent delamination and cathodic disbondment.



- Superior corrosion and chemical resistance.
- Low porosity and fast curing time.
- Can be used as a single layer or as the primer in a dual layer or in a multilayer system.
- Compliant with construction and engineering standards worldwide
- Can be combined with some other Protech Group coating features.

ESD-KOTE

electrostatic discharge solution

ESD-KOTE is a proprietary thermoset powder coating solution that reduces the risk of shock by continuously conducting and dissipating static build up on surfaces and slowing the rate of charge transfer.



- Broad static dissipative range.
- Excellent physical properties and film integrity.
- Excellent surface durability, hardness and adhesion.
- Superior corrosion resistant properties.
- Can be combined with some other Protech Group coating features.

HD-KOTE

heavy duty solution

HD-KOTE is a proprietary thermoset powder coating solution for heavy-duty applications needing superior protection from the elements with high corrosion resistance capabilities.



- Dramatically increases the lifespan of products.
by reducing maintenance and replacement costs.
- Superior anti-corrosion properties.
- One coating system without a need for a primer.
- Prevents moisture from reaching substrate.
- Excellent scratch and chemical resistance.
- Can be combined with some other Protech Group coating features.

HELIOCOAT®

heat resistant solution

HELIOCOAT® is a proprietary thermoset powder coating solution developed to protect surfaces exposed to extreme high temperatures, up to 1400°F (760°C).

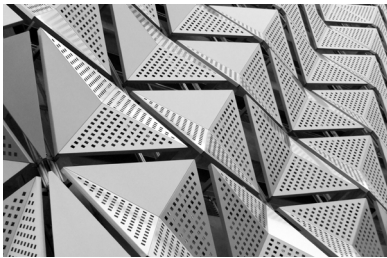


- Highest heat resistance of any thermoset powder coating.
- Scratch, chip, and corrosion resistance.
- Excellent adhesion and long-term color retention.
- Flexible application for indoor or outdoor use.
- Available in four categories based on heat resistance level.

LB-SERIES™

low-bake solution

LB-SERIES™ is a specially formulated thermoset powder coating solution that reduces baking temperature and curing time, thereby consuming less energy and accelerating production.



- Significantly less energy consumption translating to energy cost savings.
- Lower impact on the environment, supporting corporate sustainability objectives.
- Increased line productivity and time savings, creating greater efficiencies and delivering lower cost.
- No compromise on physical and chemical properties of the current coating formulation.
- Free cost saving calculations available through our experts.

PERMASLIP®

low friction solution

PERMASLIP® is a proprietary thermoset powder coating solution that exhibits an extremely low coefficient of friction while maintaining hardness for a durable finish.



- Lowest coefficient of friction of any thermoset powder coating.
- Scratch and chip resistance.
- Significant friction and wear reduction, mitigating the need for conventional lubricants or replacement.
- Flexible application for indoor or outdoor use.
- Can be combined with some other Protech Group coating features.

SOL-AR™

fluoropolymer-based hyperdurable solution

SOL-AR™ is a proprietary thermoset powder coating solution that provides a high level of design freedom and makes it easy to match virtually any building material.



- High-grade formulation to withstand harsh environmental elements.
- 30-year limited warranty available.
- Excellent color and gloss retention.
- Excellent resistance to humidity, corrosion, and UV.
- Can be formulated to meet and surpass most building standards, including AAMA 2605 specifications and LEED credits.
- Can be combined with some other Protech Group coating features.

STERILCOAT®

antimicrobial solution

STERILCOAT® is a proprietary thermoset powder coating solution treated with anti-microbial technology that is known to inhibit the growth of microbes on surfaces.



- Includes key active ingredients with antimicrobial technology designed to protect coatings
- Allows for surfaces to remain hygienically clean.
- Helps prevent odors, stains, and material deterioration.
- Provides 24-hour protection, 7 days a week.
- Can be combined with some other Protech Group coating features.

VELVACOAT™

soft touch finish solution

VELVACOAT™ is an exclusive thermoset powder coating solution that gives the finished product a more elegant feel and convey a sense of value.

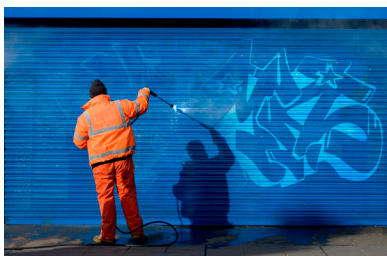


- Unique velveteen feel with fingerprint resistance.
- Excellent overall durability.
- Chemical, corrosion, scratch and chip resistance.
- Easy-to-clean coating with a high-end look and feel.
- Flexible application for indoor or outdoor use.
- Can be formulated with most Protech Group coating features.

X-GRAF®

anti-graffiti solution

X-GRAF® is a proprietary thermoset powder coating solution used to produce surface finishes which, when the proper cleaning technology is used, are nearly immune to all types of graffiti.



- Easy-to-clean properties to protect surfaces from the permanent effects of spray paint and markers.
- Good weatherability for outdoor use.
- Scratch and chemical resistance.
- Smooth, relatively non-porous and homogeneous end finish.
- Can be formulated with most Protech Group coating features.

Z-SERIES™

superdurable solution

Z-SERIES™ is a proprietary thermoset powder coating solution formulated to endure the test of time and the elements. It is well suited to withstand harsh levels of UV radiation, inconsistent degrees of humidity, temperature variations and other severe weather conditions.



- High-grade formulation to withstand harsh environmental elements.
- 10-year limited warranty available.
- Excellent color and gloss retention.
- Excellent resistance to humidity, corrosion, and UV.
- Can be formulated to meet and surpass most building standards, including AAMA 2604 specifications and LEED credits.
- Can be formulated with some Protech Group coating features.



FORMULATING THE RIGHT MIX.

For more than 45 years, 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. The 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.

www.theprotechgroup.com



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