

CLONECOAT™ (IM-Series)

THERMOSET POWDER COATINGS

CLONECOAT™ is a high-performance line of in-mold powder coatings engineered to enhance FRP (Fiber Reinforced Plastic). Combining outstanding hardness with superior chemical resistance, these powders function seamlessly as both primers and topcoats. What sets CLONECOAT™ apart is its ability to replicate the shapes, details, and textures of any molding tool with ease, unlocking unmatched creative freedom and design versatility for FRP applications.



OVERVIEW

Finish Perfection Starts in the Mold.

Advances in powder coating formulation and application have made in-mold powder coatings an attractive alternative for finishing FRP (Fiber Reinforced Plastic). This innovative and integrated process enables the finishing of FRP material with powder coating within the interior of the mold in a single step. The powder coating is applied to the inside of the mold, where it melts and gels. Meanwhile, the FRP material is positioned inside

the mold before it is closed. The powder and substrate will cure at a low temperature, ranging from 130°C to 160°C, within 3 to 5 minutes. This process enables the coating to co-react with the FRP and/or molding compounds, ensuring a strong adhesion to the part. This guarantees that the powder coating film and substrate are effectively molded together.

MAIN FEATURES

In-mold powder coatings provide a strong, attractive finish for reinforced plastics, with excellent adhesion, hardness, & chip resistance.

- **High Hardness ($\geq 4H$)** - Scratch, chip, and impact resistant.
- **Superior Resistance** - Resists chemicals, stains, scratches, and graffiti.
- **Outdoor Durability** - Excellent UV, water, and weather resistance.
- **Uniform Coverage** - Even coating on complex geometries and recessed areas.
- **Tough, Aesthetic Finish** - Chemically bonded for a durable and attractive surface.
- **No Post-Painting Needed** - Integrated process reduces time and cost.
- **Sealing & Insulation** - Fills gaps, seals surfaces, and enhances composite strength.
- **Eco-Friendly** - Solvent-free with zero VOC emissions.

TYPICAL APPLICATIONS

- **Automotive Interior & Exterior Parts** - Door panels, armrests, dashboards, trim components
- **Agricultural & Construction Equipment Panels** - Tractor body panels, protective covers, hoods
- **Appliance Housings & Structural Parts** - Washing machine tops, dryer doors, control panels
- **Recreational Vehicle and Power Sports Components** - ATV body parts, snowmobile panels, interior linings
- **Heavy-Duty Equipment Enclosures** - Generator covers, industrial paneling, housings
- **Consumer Product Casings** - Power tool housings, speaker enclosures, electronics shells
- **Furniture & Fixture Components** - Chair backs, table bases, support frames
- **Medical Device Casings** - Mobility aid components, diagnostic equipment panels



OUR SOLUTIONS

We offer advanced, in-mold thermoset coatings for a diverse range of applications. If your specific need isn't listed, feel free to contact us—we're here to help.

TECHNICAL PROPERTIES

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

SPECIFIC GRAVITY	1.3 to 1.7 (depending on color)
GEL TIME	15 to 45 seconds
CURING SCHEDULE	3 minutes at 150° C (300 ° F)
FILM THICKNESS	3 to 6 mils
STORAGE STABILITY	6 months at a max temperature of 18° C (65 ° F)



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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