

# NUVOCOAT®

## THERMOSET POWDER COATINGS



One of the most notable innovations in powder coating technology is the introduction of UV (ultraviolet) curable powders. NUVOCOAT® is a next-generation line of ultra-low-temperature cure powder coating systems specifically engineered for heat-sensitive substrates such as wood and wood composites, plastics, metal alloys, pre-assembled components, and other delicate materials.



## OVERVIEW

# UV-Cure Thermoset Powder Coatings.

The key advantage of UV powder coatings lies in their significantly lower curing temperatures (110–135°C) compared to conventional systems (177–204°C). These coatings cure rapidly under UV light, offering superior energy efficiency and production speed. By merging the benefits of traditional powder coatings with those of radiation-curable liquids, NUVOCOAT® delivers a highly durable, scratch-, chemical-, and graffiti-resistant finish—all while maintaining a VOC-free, environmentally friendly profile.

## MAIN FEATURES

- **Low-Temperature Curing** - Ideal for heat-sensitive substrates such as MDF and plastics.
- **3D & Flat Surface Coverage** - Smooth, even application on complex and flat surfaces.
- **High-Gloss & Color Variety** - Vibrant shades with sleek, high-gloss finishes.
- **Superior Hardness** - Tough, scratch-resistant surfaces from fast UV crosslinking.
- **Chemical Resistance** - Withstands solvents, acids, and harsh chemicals.
- **Efficiency & Savings** - Short cure times cut energy, labor, and material costs.
- **Fast Production** - UV curing accelerates workflows and minimizes downtime.
- **Eco-Friendly** - 100% solid, solvent-free, and VOC-free for a greener finish.

## TYPICAL APPLICATIONS

- **Furniture & Cabinetry** - MDF-based furniture, cabinet doors, shelving, and decorative panels.
- **Architectural Interiors** - Wall panels, ceiling tiles, moldings, and interior trims.
- **Retail Fixtures & Displays** - Store shelving, signage panels, POP displays.
- **Lighting Fixtures** - MDF or plastic-based components requiring durable, decorative finishes.
- **3D & Custom Surfaces** - Complex geometries or heat-sensitive materials that require precise and even coating.



## OUR SOLUTIONS

We offer advanced, UV-cure 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.

|                     |                                                                                |
|---------------------|--------------------------------------------------------------------------------|
| STORAGE TEMPERATURE | 80°F (27°C)                                                                    |
| FILM THICKNESS      | 2.5 to 4 mils                                                                  |
| SPECIFIC GRAVITY    | 1.2 – 1.7                                                                      |
| COVERAGE            | 115 – 160 sqft/lb/1mil (depending on color)                                    |
| BAKING SCHEDULE     | 10 minutes at 400°F (204°C) or 15 minutes at 375°F (191°C) (metal temperature) |



## 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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