

# DURAVIN™

## THERMOPLASTIC COATINGS

DURAVIN™ is a multipurpose, fluidized-bed grade PVC thermoplastic powder coating formulated to meet the performance requirements of indoor, outdoor, and appliance applications while delivering the maximum economic benefits. To minimize environmental impact, DURAVIN powders are available in low-smoke technology for processing purposes. DURAVIN can be formulated for enhanced flexibility and hardness.



## OVERVIEW

# PVC Thermoplastic Coatings.

DURAVIN demonstrate remarkable resistance to long-term exposure to salt spray, UV and chemicals. Correctly applied with a liquid primer, DURAVIN thermoplastic powder coatings on a pre-treated substrate show excellent salt spray resistance, with no effects after 500 hours of

exposure and minimal undercutting after 1,000 hours. The product features high film strength, elasticity, and surface hardness, and can be color customized to meet specific application needs.

## MAIN FEATURES

- **Excellent Corrosion Resistance** - Forms a durable barrier against moisture, chemicals, and environmental exposure.
- **Chemical Resistance** - Resists acids, salts, alkalis, and many industrial solvents.
- **High Flexibility** - Withstands bending and impact without cracking.
- **Two-Coat System** - Typically applied in a primer-plus-topcoat structure for enhanced durability and adhesion.
- **Available in Multiple Colors and Metallics**- Customizable appearance for branding, safety coding, or aesthetic needs.

## APPLICATIONS

- **Wire Goods and Storage Systems** – Wire shelves, baskets, display racks
- **Fencing and Outdoor Structures** – Chain link fence wire, fence post and accessories
- **Appliance Components** – Dishwasher baskets
- **Automotive and Transportation** – Battery trays, seat frames and coils
- **Agricultural and Livestock Equipment** – Animal cages, feed bins, enclosure fencing

## TECHNICAL PROPERTIES

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

GRADE		Fluidized bed
RECOMMENDED THICKNESS	ASTM D6132	8 mils (203 micron) - 12 mils (305 micron)
GLOSS	ASTM D523	70 ± 5
HARDNESS	ASTM D2240	Shore A 85+2
TENSILE STRENGTH	ASTM D638	2600 psi (18 MPa)
ELONGATION (%)	ASTM D638	180%
BRITTLINESS TEMPERATURE		-4 °F (-20 °C)
FLEXIBILITY	ASTM D522	1/8 in (3.2 mm), no cracks (>32%) (Conical Mandrel)
SALT SPRAY	ASTM B117	2000 hrs. No significant under cut or creep
QUV	ASTM G53	2000 hrs, no significant change in color or gloss.
HUMIDITY RESISTANCE	ASTM D2247	No blistering or loss of gloss after 1000 hours.
SPECIFIC GRAVITY OF FUSED FILM		1.30 ± 0.02
MELTING RANGE, °F		395 – 415°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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