

DURAPOL™

THERMOPLASTIC COATINGS

DURAPOL™ is a high-performance thermoplastic copolymer coating engineered as a durable alternative to nylon. Formulated with specialized copolymers for increased durometer, it delivers strong adhesion in a single coat. DURAPOL provides a premium, cost-effective alternative to nylon-based coatings, enhancing product lifespan and durability.



OVERVIEW

Functional Copolymer Thermoplastic Coatings.

DURAPOL powders are engineered using technology that withstands harsh chemical and heat exposure while furnishing remarkable hardness properties. When properly applied, co-polymer powder coatings exhibit excellent salt-spray resistance. A zinc or iron phosphate substrate, sandblasted and coated with the DURAPOL, will

provide a durable finish that shows no effect after 2,000 hours of exposure to salt spray. DURAPOL powders are a high-end application solution that provides significant economic benefits compared to nylon-based products. It is also available in custom colors and metallic finishes.

MAIN FEATURES

- **Excellent Corrosion and Chemical Resistance** – Strong barrier against rust, moisture, and chemicals.
- **High Adhesion** – Bonds well to prepared surfaces without a primer.
- **Excellent Heat and Autoclaving Resistance** – Withstands high temperatures without degrading.
- **High Durometer** – Hard, durable surface with dimensional stability.
- **Available in Multiple Colors and Finishes** – Customizable for appearance and functional marking.

TYPICAL APPLICATIONS

- **Consumer Goods & Appliances** – Wire shelving, baskets, appliance racks, hardware components, closet organizers
- **Livestock Equipment** - Animal cages

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 D 80 ± 5
TABER ABRASION	ASTM D4060	1000 Cycles - 12.6mg loss, CS10 wheel & 10.8mg loss, CS17 wheel
BRITTLENESS TEMPERATURE		-108 °F (-78 °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		1.11
ADHESION		>1000 psi
MELTING RANGE, °F		390°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.



info@theprotechgroup.com
www.theprotechgroup.com
1-800-361-9364



This document contains general information only and should not be construed as creating any warranties, expressed or implied.
© 2026 Protech Chemicals Inc. All rights reserved.