

WATERARMOR™

THERMOPLASTIC COATINGS



Protech's WATERARMOR™ functional thermoplastic powders are the ideal solution for coating pipes used in the transport of potable water. These products are NSF 61 certified and free from Bisphenol A (BPA), emitting no harmful volatile organic compounds (VOCs). WATERARMOR coatings are formulated to provide excellent protection against UV exposure and are highly durable against weathering. They also provide excellent impact and chemical resistance.



OVERVIEW

Functional Polyethylene Thermoplastic Coatings for Potable Water.

WATERARMOR is formulated with a functionalized polyethylene copolymer that is controlled, tested, and certified for use in water infrastructure. These coatings can be sprayed on or applied using a fluidized bed, and no primer is required. WATERARMOR powder coatings are proudly manufactured in North America.

MAIN FEATURES

- **Exceptional Corrosion and Chemical Resistance** – Protects metal surfaces from rust, chemicals, and long-term environmental degradation.
- **Excellent UV Resistance** – Maintains performance and appearance even under prolonged exposure to the sun.
- **Excellent Adhesion:** No primer is required.
- **Holiday-Free Coating** – Applies uniformly without gaps, pinholes, or bare spots, ensuring complete surface protection.
- **Repairable** – Can be easily touched up or recoated if damaged, extending service life and reducing maintenance costs.
- **NSF/ANSI 61 Certified** – Approved for use in contact with potable (drinking) water, ensuring safety and compliance.
- **Meets AWWA Specifications** – Conforms to American Water Works Association standards for use in water infrastructure applications.

TYPICAL APPLICATIONS

- **Pipes and Fittings** – Interior and exterior of steel pipes & fittings, exterior of ductile water pipes, interiors & exterior of ductile fittings
- **Water Storage Tanks** – Interior tank linings, underground reservoirs, portable storage units
- **Valves and Hydrants** – Valve bodies, hydrant housings, water control units
- **Pump Components** – Pump casings, impellers, inlet/outlet components
- **Reservoir Covers and Panels** – Tank covers, structural panels, access hatches



TECHNICAL PROPERTIES

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

GRADE		Fluidized bed, electrostatic spray
TENSILE STRENGTH	ASTM D638	3496 psi (24 MPa)
ELONGATION	ASTM D638	414 %
VICAT SOFTENING POINT	ASTM D1525	162 °F (72 °C)
IMPACT, DIRECT/RESERVE (INCH LBS)	ASTM D2794	160/160
TABER ABRASION	ASTM D4060	28 mg loss, CS10 wheel & 61 mg loss, CS17 wheel
ADHESION	ASTM D4541	>2000 psi (13.78 MPa)
HARDNESS SHORE D		55
DIELECTRIC		893V/mil (387 kV/cm) @ 20 mils (508 micron)
CATHODIC DISBONDMENT	ASTM G95-07	5 mm average radial disbondment
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
HIGH IRRADIANCE XENON-ARC	JIS K 5600-7-7:2008	>1000 hrs, No significant change in color or gloss
HUMIDITY RESITANCE	ASTM D2247	No blistering or loss of gloss after 1000 hours
ORGANIC COMPOUNDS (VOCS)		ZERO



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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