

HD-KOTE

THERMOSET POWDER COATINGS

HD-KOTE (Heavy Duty) is a polyester-based one-coat thermoset powder coating system engineered for superior corrosion and UV resistance. Its compatibility with standard pretreatment enhances production efficiency and lowers costs. HD-KOTE is also available in low-bake technology, reducing curing temperatures and energy consumption, further improving efficiency and supporting more sustainable, cost-efficient manufacturing.



OVERVIEW

Heavy-Duty, One-Coat Thermoset Powder Coatings.

Protech Group's Heavy-Duty (.HD) powder coating range enhances the corrosion resistance of polyester powder coatings by up to 25%, providing extra corrosion protection when needed. It is ideal for situations in which a

standard pretreatment and topcoat system fall short, but a 2-layer system is unnecessary or too costly. HD-KOTE offers a cost-effective one-coat solution that simplifies the process while maintaining long-term durability.

MAIN FEATURES

- **Enhanced corrosion** – Up to 25% longer protection
- **Cost-effective** – One-coat system with reduced production times
- **Available in low-temperature cure** – LB-SERIES technology allows curing at 160°C, enhancing energy efficiency while preserving coating performance.
- **Coverage** - Improved edge coverage over standard polyester coatings.
- **Formulations** – Industrial-grade, architectural-grade, normal durable, and super durable coatings to meet all application requirements.
- **Performance** – Qualicoat and GSB certifications available
- **Custom Colors** – Can be formulated in any RAL color, including metallics, offering broad design flexibility.

TYPICAL APPLICATIONS

- **ACE Equipment:** Tractors, bulldozers, excavators, stone crushers
- **HVAC Systems:** Heat pumps, air conditioning units, ventilation housings
- **Infrastructure & Structural Steel:** Bridges, support beams, guardrails, lighting poles
- **Industrial Machinery & Equipment:** Compressors, pumps, generators, enclosures
- **Transportation Equipment:** Trailers, railway components, truck chassis parts
- **Public & Urban Furniture:** Benches, fences, waste bins, lamp posts
- **Oil, Gas & Offshore:** Pipes, tanks, risers, subsea structures



OUR SOLUTIONS

We provide high-performance, heavy-duty thermoset powder coatings engineered for maximum protection in harsh environments. These coatings offer superior durability, impact resistance, and corrosion protection, ideal for demanding applications in ACE machinery, industrial equipment, infrastructure, and other critical environments.

TECHNICAL PROPERTIES

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

PRE-TREATMENT	For steel and Aluminum–Phosphating or Zirconium or other suitable surface treatment
APPLICATION CONDITIONS	Electrostatic powder spray 40 to 100 kv
FILM THICKNESS	For normal usage 60 - 100 microns (Color and finish type related)
HARDNESS	HB to 4H (Formulation related)
SPECIFIC GRAVITY	1.2 to 1.75 (Color related)
COVERAGE	160 to 110 ft ² / lbs / mil or 50 - 80 m ² /kg with 60 microns at 100% efficiency (Color related)
CORROSION RESISTANCE	2500 hrs reported over blasted steel treated test panels (ASTM B117)
BAKING SCHEDULE	METAL TEMPERATURE (Formulation related) 10 minutes at 320°F (160°C) Low temperature cure 15 minutes at 400°F (155°C) Super low temperature cure 5 minutes at 400F (180°C) Regular cure



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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