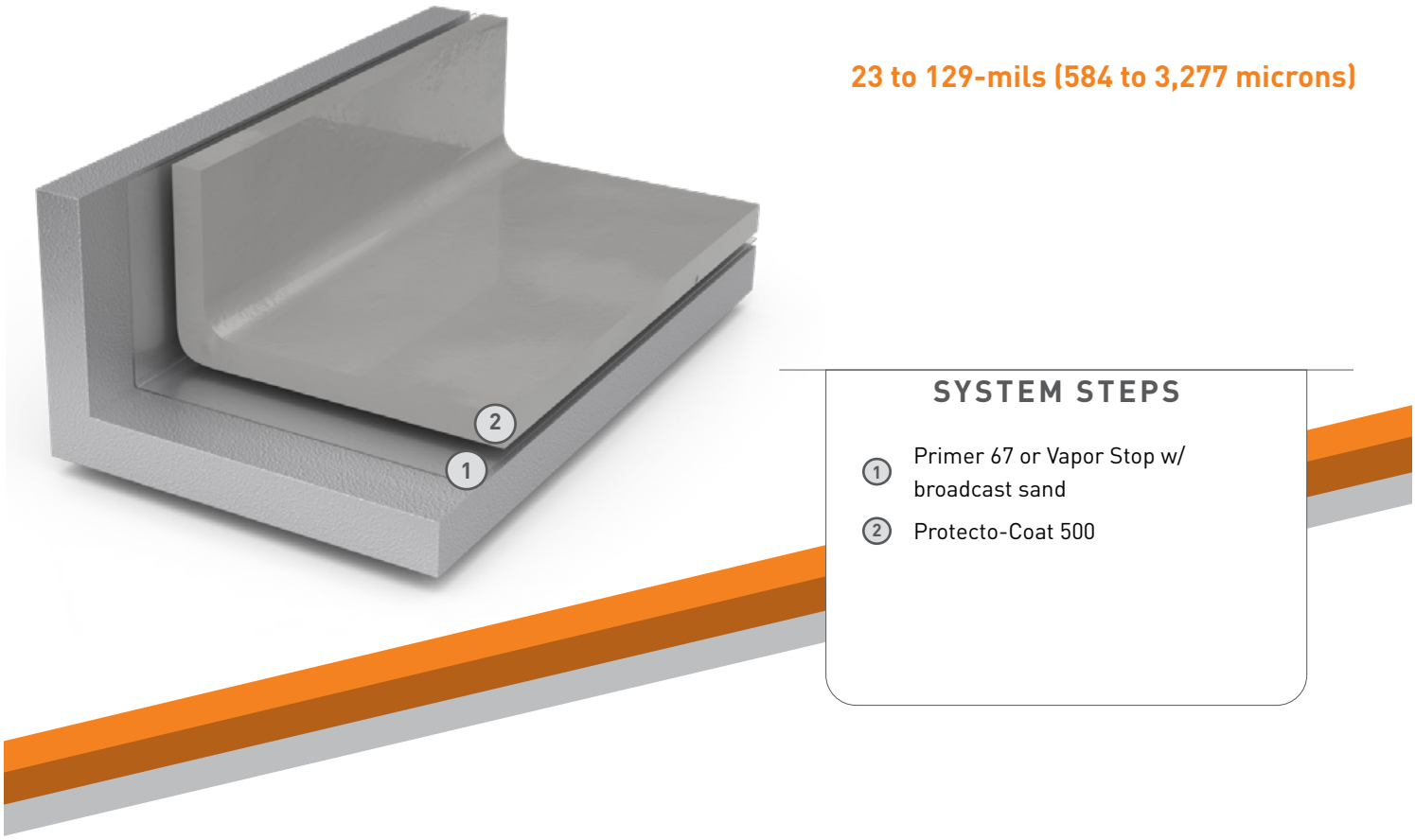
Protecto-Coat 500

SYSTEM INFORMATION SHEET



23 to 129-mils (584 to 3,277 microns)

SYSTEM STEPS

1. Primer 67 or Vapor Stop w/ broadcast sand
2. Protecto-Coat 500

ABRASION RESISTANT

The glass-flake reinforcement in the Protecto-Coat series linings provides better abrasion resistance and extends service life.

CHEMICAL RESISTANCE

This system is broadly chemical resistant and withstands exposure to various fuels, fluids, lubricants, and cleaning agents.

BETTER RECOAT TIMES

With a very short minimum primer recoat time to longer than average maximums, Protecto series linings can be installed on your terms.

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Dudick® A Division of Carboline

	TEST METHOD	RESULTS
PERFORMANCE DATA	Flexibility Method B, 1/8 inches Cylinderical Mandrel Bend (ASTM D522)	Pass
	Humidity Resistance (ASTM D2247)	1,000 hours with no effect
	Impact Direct and Reverse (ASTM D2794)	160 in. lbs.
	Membrane Bio-Reactor Lining, 20 cycles	Pass
	Permance (ASTM E-96)	0.23 perms
	Pickle Jar Test from Greenbook Section 210-2.3	Pass
	Salt Fog Resistance (ASTM B117) for 1,000 hours	Plane: No blisters Scribe: No blisters & 1.7 mm UCC
	Shore D Hardness (ASTM D2240)	60-65
	Taber Abrasion* (ASTM D4060)	37 mg loss
	Tear Strength (ASTM D624)	347 pli
	Tensile Strength Elongation (ASTM D412)	2,000-3,000 psi (13.8-20.7 MPa) 90 to 110%
	Water Absorption, Long Term Method (ASTM D570)	Less than 0.7%
	Water Vaport Transmission Rates (ASTM E-96)	0.1 g/100 in²/24 hours

*CS-17 wheel, 1000 cycles, 1000 gram load

SYSTEM STEPS	PRODUCT	THICKNESS	THEORETICAL COVERAGE RATE	PACKAGING	APPLICATION EQUIPMENT	RECOAT TIME*
Primer	Primer 67 or Vapor Stop with broadcasting sand	3-4 mils (76.2-101.6 microns)	341-454 ft²/gal (8.4-11.3 m²/l)	Part A Part B	Short nap mohair roller / Brush / Spray	3 hours (min) 24 hours (max)
Basecoat	Protecto-Coat 500	20-125 mils (500-3125 microns)	13-80 ft²/gal (0.3-2 m²/l)	Part A Part B	Short nap mohair roller / Brush / Spray	4 hours (min) 96 hours (max)

Contact your Dudick Subject Matter Expert or Carboline Technical Service Representative for recommendations based on chemical service.

*Recoat time at 75ºF (24ºC).

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INSTALL

This document is meant as a guideline for the installation of the system. Contact Dudick for further assistance prior to the installation of the system.

Apply Primer 67 at 3-4 mils without allowing it to puddle around welds or in pitted areas via brush, roll, or spray at the specified film thickness opbserving the specific application and recoat information found on the data page.

If coating green concrete or concrete that has high MVT, Vapor Stop primer should be substituted in place of Primer 67. Apply Vapor Stop in three (3) coats at 10 mils per coat for vertical applications, or at least 30 mils in one coat for horizontal applications. Use of broadcast sand will provide protection against outgasing and allow for an unlimted recoat window. Common application methods are to squeegee for horizontal, and hopper gun spray for vertical surfaces.

Hand trowel Scratch-Coat 800 as needed into pitted areas or transition and smooth a high weld.

Good linings application practice dictates that all sharp angles and welds be stripe coated before the final coat is applied. Once a stripe coat has been applied, two full coats of Protecto-Coat 500 should be applied via brush, roll, or spray to achieve the specified thickness of the system.

SURFACE PREPARATION

Ferrous Metal: Primer 67 is recommended to be used to promote better adhesion or as a holding primer inimmersion service.

Immersion and heavy spillage service: White Metal, SSPC SP 5 or NACE No.1, minimum 3.0 mil profile.

Heavy non-immersion service (i.e. fumes and spillage): Near white, SSPC SP 10 or NACE No.2, minimum 2.0 mil profile.

Atmospheric service: Commercial SSPC SP 6 or NACE No.3, minimum 2.0 mil profile

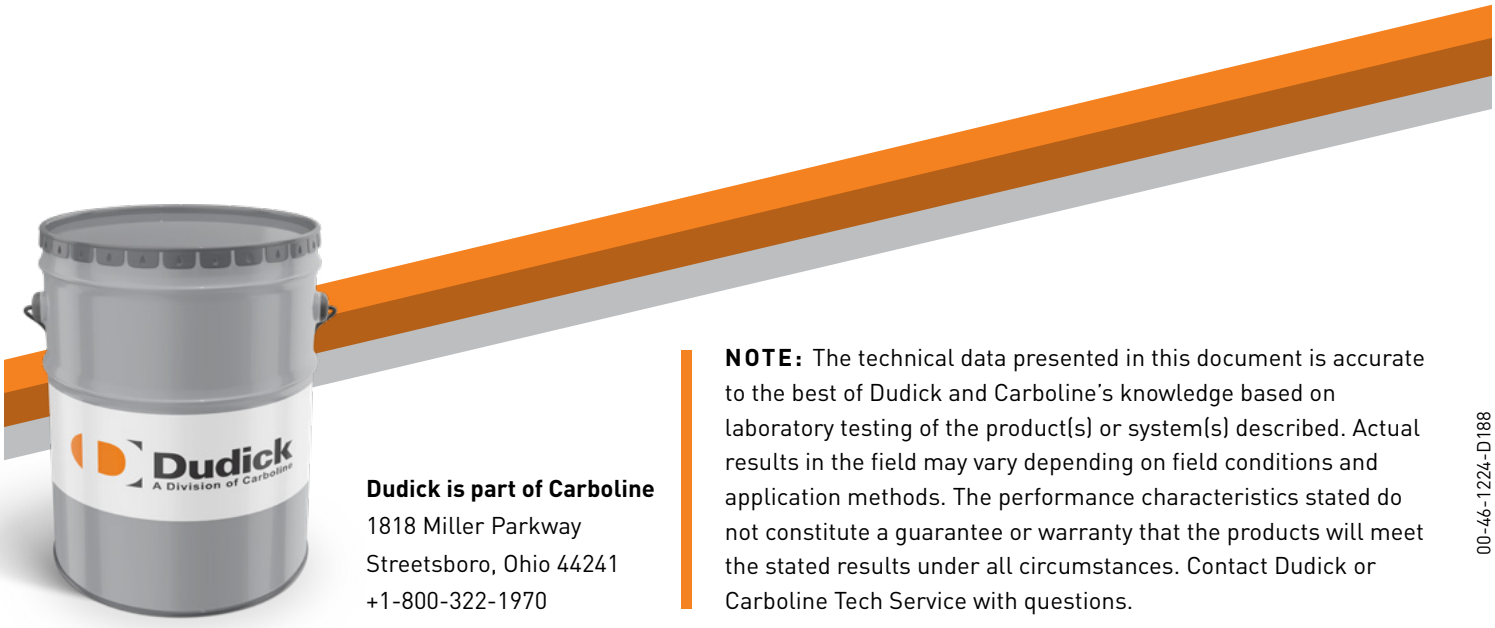
Non-Ferrous Metal: Must be primed with Primer 67 for immersion service. Prepare by abrasive blasting to SSPC-SP 17 thorough Abrasive Blast to a minimum of 3 mils (75 microns) dense angular anchor profile.

Concrete: Concrete must be prepared mechanically to remove surface laitance. Oils, grease, or other surface contaminants must be removed prior to surface preparation. Concrete must free of curing compounds and form release agents. Abrade the surface to achieve an ICRI CSP 3 or greater surface profile. The prepared surface should have a nominal tensile strength of 250 psi (1.72 MPa) per ASTM D7234. Filled joints and cracks in the concrete may be coated, but if movement occurs the coating will crack with the movement of the concrete.

Concrete substrates must be checked for moisture prior to product application using the Plastic Sheet Test, ASTM D4263. If moisture is found to be present, contact Dudick for further recommendations.

MIXING

All mixing should follow the mixing instructions on the specific Product Data pages.



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NOTE: The technical data presented in this document is accurate to the best of Dudick and Carboline's knowledge based on laboratory testing of the product(s) or system(s) described. Actual results in the field may vary depending on field conditions and application methods. The performance characteristics stated do not constitute a guarantee or warranty that the products will meet the stated results under all circumstances. Contact Dudick or Carboline Tech Service with questions.

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