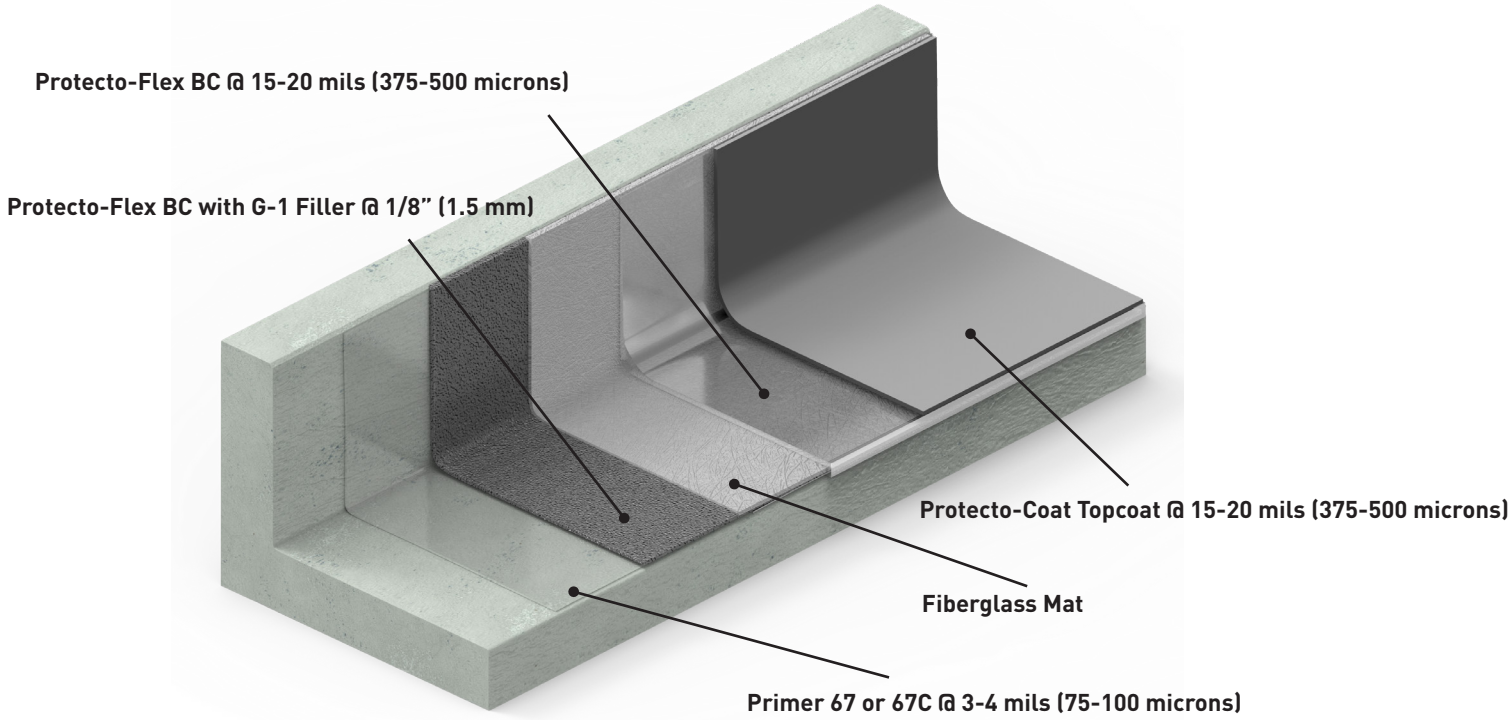
Protecto-Flex 800/805

SYSTEM INFORMATION SHEET

(100-110 mils / 2500-2750 microns)



- Bridges surface cracks in concrete
- Flexible system
- Aluminum oxide or sand can be used to increase abrasion resistance and anti-slip properties

TEST METHOD	RESULTS
Compressive Strength (ASTM C579)	6,000 psi (41 MPa)
Tensile Bond Strength (ASTM C307)	4,500-5,000 psi (31-34 MPa)
Tensile Elongation (ASTM C307)	12-15%
Shore D Hardness (ASTM D2240)	70-75
Tensile Bond Strength (ASTM D7234)	Cohesive Failure of Concrete

Note: Dudick flooring systems can be built to meet or exceed the requirements of Static or Dynamic Coefficient of Friction testing per installation to meet static coefficient of friction requirements for ANSI B101.1 of >0.6 and dynamic coefficient of friction (DCOF)* – Wet ANSI A326.3 of >0.42.

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SYSTEM STEPS	PRODUCT	THICKNESS	THEORETICAL COVERAGE RATE	PACKAGING	APPLICATION EQUIPMENT	RECOAT TIME*
Primer	Primer 67 or Primer 67C	3 - 4 mils (75 - 100 microns)	341-454 ft²/gal (8.4-11.2 m²/l)	Part A Part B	Short Nap Mohair Roller Brush Spray	2 hours (min) 6 hours (max) Refer to PDS for optional accelerator additions
Basecoat	Protecto-Flex BC with G-1 Filler	1/8" (1.5 mm) (~60 mils / 1500 microns)	25 ft²/gal (0.6 m²/l)	Part A Part B Part C	Trowel	72 hours
Reinforcement	Fiberglass Mat	1oz chop	Area + 10%			
One layer of one (1) ounce fiberglass mat is used to help bridge small surface cracks and isolate their movement to the basecoat. It is applied to the wet basecoat and becomes an integral part of it, acting much the same as a reinforcing bar does in concrete.						
Saturant Coat	Protecto-Flex BC	15 - 20 mils (375 - 500 microns)	80-107 ft²/gal (2-2.6 m²/l)	Part A Part B	Short Nap Mohair Ribbed Roller Brush	72 hours
Note: This should be abraded to remove fins or protrusions and any high spots left from durring glass mat installation.						
Topcoat	Protecto-Coat 800/805	15 - 20 mils (375 - 500 microns)	80-100 ft²/gal (2-2.5 m²/l)	Part A Part B	Short Nap Mohair Roller Brush Spray	4 hours (min) 96 days (max)
Contact your Dudick Subject Matter Expert or Carboline Technical Service Representative for recommendations based on chemical service.						
Optional Broadcast	Abrasion Resistant (AR) = 36 grit aluminum oxide Sand Finish (SF) = 20/40 mesh silica sand					
If broadcast is added, a second coat of Protecto-Coat 800/805 must be applied.						

*Recoat time at 75°F (24°C)

INSTALL

After applying the primer, mix Protecto-Flex BC Part A, Part B, and G-1 Filler per the mixing instructions. Apply a 1/8" (1.5 mm) thick basecoat to a smooth, even finish using a trowel.

Reinforcement and Saturant:

Before the basecoat begins to cure, press one layer of 1 ounce chopped strand fiberglass mat into the wet basecoat. Lap all edges by 1 inch. Use a stiff, natural bristle brush or roller and press the mat firmly into the basecoat, using a technique similar to hanging wallpaper, to remove all air pockets and wrinkles.

Saturate the fiberglass with the basecoat resin mixture, using a short nap paint roller. Roll vigorously until the mat has lost its white color and turns translucent. Use enough resin to "wet out" the mat, but do not allow the saturant to puddle. Immediately roll the wet fiberglass with a ribbed roller to remove any trapped air or wrinkles. Allow the basecoat and reinforcement application to dry.

Before applying the topcoat, examine the fiberglass for any air bubbles or blisters. If these are present, they must be cut out and repaired, using the procedure above. IRough overlaps and protruding fiberglass strands should be abraded and smoothed. The topcoat will emphasize any imperfections in the fiberglass. Excessive blistering of the basecoat reinforcement may indicate inadequate rolling with the ribbed roller.

Consult Dudick representative for recommendation for spray application.

Optional Abrasion Resistant/Sand Finish Variation Broadcast: Aluminum oxide can be added for increaded abrasion and inmpact resistance. Sand can be added for an econimocal slip resistant finish. Either material is broadcasted to complete saturation and the excess removed by sweeping. Broadcast the aggregate into the topcoat and seal the broadcast with a second topcoat.

To seal in aggregate, apply a second coat of Protecto-Coat 800.

To reduce surface texture, a 3rd coat of Protecto-Coat 800/805 can be applied after the topcoat has cured.

SURFACE PREPARATION

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 5 or greater surface profile. The prepared surface should have a nominal tensile strength of 250 PSI (1.72 MPa) per ASTM D-7234. 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 D-4263. 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'sknowledge based on laboratory testing of the product(s) or system(s) described. Actual results in thefield may vary depending on field conditions and application methods. The performance characteristicsstated do not constitute a guarantee or warranty that the products will meet the stated results under all circumstances. Contact Dudick or Carboline technical staff with questions.

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