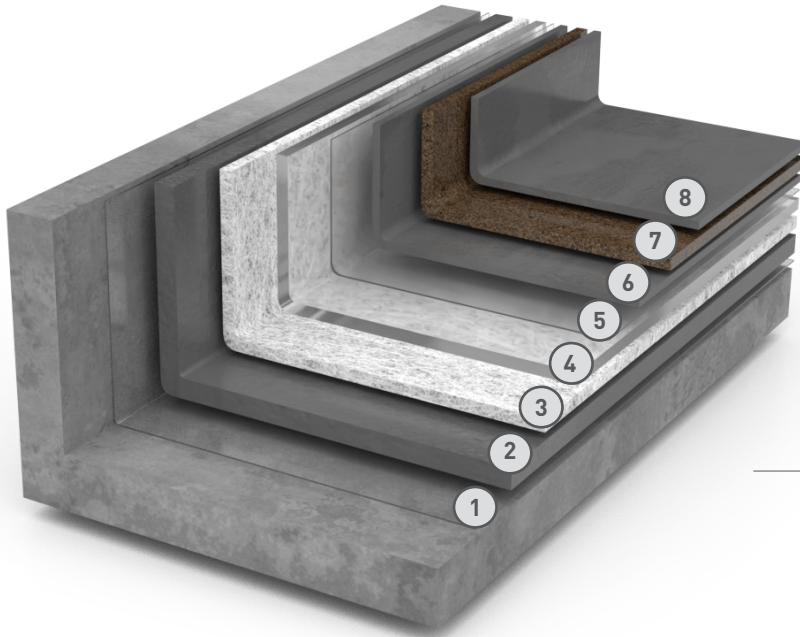


Protecto-Flex 900 AR

SYSTEM INFORMATION SHEET



100 to 110-mils (2,500 to 2,750 microns)

SYSTEM STEPS

- ① Primer 67 or 67C
- ② Protecto-Flex BC with G-1 Filler
- ③ Fiberglass mat
- ④ Protecto-Flex BC
- ⑤ Primer 27
- ⑥ Protecto-Coat 900
- ⑦ 60 mesh aluminum oxide
- ⑧ Protecto-Coat 900



REDUCED MOVEMENT

Superior formulation and flexibilized characteristics of Protecto-Flex 900 AR provide protection against movement of the concrete substrate.



CHEMICAL RESISTANCE

The Protecto-Flex 900 AR system is broadly chemical resistant and withstands exposure to various fuels, fluids, lubricants, and cleaning agents.



BRIDGES CRACKS

Protecto-Flex 900 AR is formulated to bridge cracks up to 1/8-inch wide, extending the potential service life of the flooring system.

Protecto-Flex 900 AR

SYSTEM INFORMATION SHEET



PERFORMANCE DATA	TEST METHOD	RESULTS
	Compressive Strength (ASTM C579)	7,300 psi (50 MPa)
	Shore D Hardness (ASTM D2240)	70-75
	Tensile Bond Strength (ASTM C307)	4,500-5,000 psi (31-34 MPa)
	Tensile Bond Strength (ASTM D7234)	Cohesive failure of concrete
	Tensile Elongation (ASTM C307)	12-15%

SYSTEM STEPS	PRODUCT	THICKNESS	THEORETICAL COVERAGE RATE	PACKAGING	APPLICATION EQUIPMENT	RECOAT TIME*
Primer	Primer 67 / Primer 67C	3-4 mils (76.2-101.6 microns)	341-454 ft²/gal (8.4-11.2 m²/l)	Part A Part B	Short nap mohair roller / Brush / Spray	6 hours (min) 5 days (max)
Basecoat	Protecto-Flex BC with G-1 Filler	1/16" (1.57 mm) (62.5 mils/1,587.5 microns)	25 ft²/gal (0.6 m²/l)	Part A Part B Part C	Trowel	Install glass mat immediately
Reinforcement	Fiberglass mat	1 oz chop strand	Area + 10%			
One layer of 1oz 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 (381-508 microns)	80-107 ft²/gal (2-2.6 m²/l)	Part A Part B	Short nap mohair ribbed roller / Brush	72 hours
After mixing the Part A, Part B, and G-1 Filler per the mixing instructions, use a trowel to apply an approximately 1/16" (~60 mils) thick basecoat to a smooth, even finish.						
Intermediate Coat	Primer 27	5-6 mils (125-150 microns)	150 ft²/gal (3.7 m²/l)	Part A Part B	Short nap mohair roller / Brush / Spray	3 hours (min) 5 days (max)
Topcoat	Protecto-Coat 900	15-20 mils (381-508 microns)	80-100 ft²/gal (2-2.5 m²/l)	Part A Part B	Short nap mohair roller / Brush / Spray	4 hours (min) 96 hours (max)
*Recoat time at 75°F (24°C).						

Protecto-Flex 900 AR

SYSTEM INFORMATION SHEET



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.

After applying the primer, mix Protecto-Flex BC Part A, Part B, and G-1 Filler per the mixing instructions. Apply a 1/16 inch (1.57 mm) thick basecoat to a smooth, even finish using a trowel.

Adding reinforcement and saturant:

Before the basecoat begins to cure, press one layer of 1oz chopped strand fiberglass mat into the wet basecoat. Overlap all edges by 1 inch. Use a stiff, natural bristle brush or short nap 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 by mixing Parts A and B only, do not add the G-1 filler, to make a neat resin mixture. Roll vigorously using a short nap roller until the mat has lost its white color and turns translucent, paying special attention to overlaps and corners. Use enough resin to wet out the mat, but do not allow the saturant to puddle. Roll the wet fiberglass with a ribbed roller to remove any trapped air or wrinkles. Allow the basecoat and reinforcement application to dry overnight.

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. The topcoat will emphasize any imperfections in the fiberglass. Excessive blistering of the basecoat reinforcement may indicate inadequate rolling or too little saturant.

Prior to the application of any further coats, the troweled basecoat, 1oz glass mat, and saturant layers must be allowed to dry long enough that they create dust when grinding the entire surface, which provides a profile for successive coats and removes any high spots or protrusions that would affect the finish. Then, it must be solvent wiped. Use caution not to grind through the reinforcing layer.

Optional abrasion-resistant/sand finish variation broadcast:

Aluminum oxide can be added for increased abrasion and impact resistance. Sand can be added for an economical 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 900.

To reduce surface texture, a third coat of Protecto-Coat 900 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 be 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 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.



Dudick is part of Carboline
1818 Miller Parkway
Streetsboro, Ohio 44241
+1-800-322-1970

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 technical staff with questions.

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