

PRODUCT INFORMATION SHEET
5000 FLOORING SYSTEM
 1/4" LAMINATE BROADCAST

DESCRIPTION:

5000 FS is a multi-layered laminate flooring system built up to approximately 1/4 inch (250 mils) thick. The monolithic surface is resistant to chemicals, thermal shock and abrasion. 5000FS is U.S.D.A. acceptable for use in food plants.

ADVANTAGES:

- Deep Penetrating Primer - Excellent Adhesion.
- Squeegee Applied – Applicator Friendly
- Quick Cure - Foot Traffic In Two Hours
- Abrasion Resistant – Very Durable
- Slip Resistant
- Monolithic Surface – Easy To Clean
- U.S.D.A. acceptable

USES:

- Rebuild Damaged Concrete Surfaces
- Food Production Areas
- Heavy Wear and Abuse Areas
- Steel Wheel Vehicle Area
- Chemical Process Areas

SUPPLEMENTAL PRODUCTS:

- 5500 Grout - Pitching and Filler
- 6000 VS
Vertical Surfaces and Coves
- 6650 Coating System
Walls and Ceilings

PACKAGING AND COVERAGE:

5000 FS is packaged in bulk quantities, with measuring tools supplied.

5000 FS Small Unit – covers approximately 50 square feet at 1/4 inch (250 mils), and consists of the following -

- 1 - 5 gallon container resin
- 1 - 15 oz. container catalyst
- 1 - 1/2 gallon container ULTRAPRIME
- 1 - 4 oz. container glazing compound
- 150 pounds - chemical resistant aggregate
- 1 set - measuring tools

5000 FS Large Unit – covers approximately 500 square feet at 1/4 inch (250 mils), and consists of the following -

- 1 - 55 gallon container resin
- 1 - 1 gallon container catalyst
- 1 - 2 gallon container ULTRAPRIME
- 1 - 1/2 gallon container glazing compound
- 14 - 100 lb. bags chemical resistant aggregate
- 1 set - measuring tools

PROPERTIES:

Compressive Strength	18,500 psi ASTM C-579 (resin)
Tensile Strength	9,500 psi ASTM D-638 (resin)
Flexural Strength	16,000 psi ASTM C-580 (resin)
Bond Strength	Greater than 350 psi ASTM C-321 100% concrete failure
Coefficient of Thermal Expansion	1.2 x 10 ⁻⁵ in./in./°F
Impact Strength	160 in./lbs.
Indentation	No indentation MIL-D-3134F
Abrasion Resistance	35 milligrams ASTM D-1044
Water Absorption	0.024% ASTM C-413
Working Time at	20-30 minutes 75°F (24°C) ASTM C-308
Shelf Life	1 Year
Colors	Gray, Red, Black
Solids by Content	By Weight 95% By Volume 95%

SURFACE PREPARATION:

5000 FS may be installed only on clean, sound substrates

Concrete:

New concrete must be cured a minimum of 28 days. All coatings, oils, grease and unsound concrete must be removed. Concrete surfaces must then be acid etched, scarified or shot blasted to remove surface laitance. A good bonding tooth, the texture of 60 grit sandpaper, is desired for maximum adhesion, with removal of all surface glaze.

Metal Surfaces:

Blast the surface to near white SSPC-SP10-70 or NACE No. 2 using a Venturi blast nozzle with 100 psi air. The blasting media used shall be properly graded, clean, sharp, angular abrasive similar to Humble Abrasive Flint #7 (6-30) mesh, or Steel Grit (HG25).

MIXING:

Prior to starting, all materials should be stored at 70°F (21°C) for at least 48 hours. ULTRAPRIME is a single component product, so it can be applied directly to the floor without mixing. 5000 FS - Mix 1 gallon of resin with 2 oz. catalyst for 2 minutes. Pour out on floor. For last coat, mix 1 gallon of resin with 4 oz. glazing compound for 2 minutes, then mix in 2 oz. catalyst for 2 minutes. (At 60°F/16°C, add 2-1/2 oz. catalyst per gallon. At 80°F/27°C, add 1-1/2 oz. catalyst per gallon). Do not allow any mixed material to sit in a pail as this will substantially reduce working time of material.

APPLICATION:

Substrate temperature should be 65°-85°F (18°-29°C) during installation and for 96 hours thereafter for complete cure. Do not apply 5000 FS when floor temperature is below 50°F (10°C) or above 90°F (32°C). Roll ULTRAPRIME on floor at a rate of approximately 250 sq. ft. per gallon. Cure to a tacky finish (30-45 minutes), and apply first coat of 5000 FS within 4-6 hours maximum.

Pour liquids on floor and squeegee or roll at a rate of approximately 50 sq. ft. per gallon. A rough floor will reduce the spread rate of first coat. Broadcast aggregate to excess, leaving a 1 ft. wet edge for next batch. Four seed coats are required to build the required film thickness. Sweep off the excess after approximately 30-45 minutes, or when set to the touch. For final coat, with glazing compound added, spread at the required thickness for desired non-skid finish. Unless otherwise specified, this flooring is designed to follow the existing contour of the floor.

CURE TIME:

5000 FS will harden to foot traffic within 1 hour, moderate traffic within 24 hours, and will achieve full chemical resistance and physical properties after 96 hours at 75°F (24°C).

CLEANUP:

Cured or hardened 5000 FS will adhere to many substrates and is very difficult to remove. Clean tools immediately with acetone or other solvent based cleaners.

SAFETY:

Avoid skin contact. If eye contact occurs, flush with water and consult a physician immediately. Keep work areas well ventilated. Never seal a container of mixed resin and catalyst as the continuing exothermic reaction may cause container to explode. 5000 FS is manufactured using a styrene monomer, which will give off an odor during application. Customer is responsible for protecting employees and food product from these odors. Cured product poses no threat of odor contamination. 5000 FS Material Safety Data Sheets are available upon request.

IMPORTANT NOTICE TO PURCHASER:

The following is made in lieu of all warranties, expressed or implied. Seller and manufacturer's only obligation shall be to replace such quantities of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential arising out of the use of or inability to use the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risks and liability whatsoever in connection therewith. The foregoing may not be altered unless written authorization is received from PROTECTIVE FLOORINGS AND LININGS, A DIVISION OF A. W. CHESTERTON.