

Product Data Sheet

DESCRIPTION:

6100 FS is a multi-layered laminate flooring system built up to approximately ¼ inch (250 mils) thick. The monolithic surface is resistant to chemicals, thermal shock and abrasion. 6100 FS is U.S.D.A. acceptable for use in food plants.

ADVANTAGES:

- Excellent Chemical Resistance
- 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 Chemically Damaged Surfaces
- Food Production Areas
- Heavy Wear and Abuse Areas
- Steel Wheel Vehicle Area
- Chemical Process Areas

SUPPLEMENTAL PRODUCTS:

- 5500 Grout – Pitching and Filler
- 6700 LS Lining System – Trenches And Sumps
- 6000 VS
- Vertical Surfaces and Coves
- 6750 Coating System - Walls and Ceilings

PACKAGING AND COVERAGE:

6100 FS is packaged in bulk quantities -

6100 FS Small Unit – covers approximately 50 square feet at ¼ inch (250 mils), consisting of the following -

- - 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

6100 FS Large Unit – covers approximately 500 square feet at ¼ inch (250 mils), consisting 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 (ASTM C-579) <resin>:	18,500 psi	Water Absorption (ASTM C-413):	0.024%
Tensile Strength (ASTM D-638) <resin>:	9,500 psi	Working time at 75°F (24°C) (ASTM C-308):	20-30min
Bond Strength (ASTM C-321):	Greater than 350 psi; 100% concrete failure	Shelf Life:	90 days
Coefficient of Thermal Expansion:	1.2 x 10 ⁻⁵ in./in./°F	Colors:	Gray, Red, Black
Impact Strength:	160 in./lbs.	Solids by Content:	By Weight: 95% By Volume: 95%
Indentation (MIL-D-3134F):	No indentation	Flexural Strength:	16,000 psi
Abrasion Resistance (ASTM D-1044):	35 milligrams		

SURFACE PREPARATION:

6100 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. 6100 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 6100 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 6100 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:

6100 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 6100 FS will stick 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. 6100 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. 6100 FS Material Safety Data Sheets are available upon request.

Limited Warranty

Milamar Coatings products are manufactured to be free of defects in material and workmanship in meeting the properties specified on its individual Product Data Sheets. Users and installers of Milamar Coatings products are solely responsible for determining the suitability of the products for specific product applications. Milamar

Coatings makes no Warranty or Guarantee, express or implied, including warranties of fitness, design compatibility or merchantability, for any particular use and shall have no responsibility or liability, including direct, indirect or consequential damages, due to injury, delay or third party claims for installation or repair. Likewise, Milamar Coatings assumes no liability of any nature for products that are adjusted in the field or that do not utilize all specified Milamar Coatings components. Should any Milamar Coatings product be proved to be defective within one year from the date of shipment, Milamar Coatings will, at its sole discretion, replace the material; issue a credit to the customer's account; or provide a cash refund for the initial, paid purchase price of the material. Potential claims regarding product quality must be received in writing by Milamar Coatings within 30 days of the discovery of such potential defect. This Warranty is exclusive of all other warranties, expressed or implied, and may only be adjusted in writing, signed by an officer of Milamar Coatings, L.L.C.

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