

**PRODUCT INFORMATION SHEET**  
**3800 FLOORING SYSTEM**  
 1/4" MODERATE SLIP RESISTANT SLURRY TYPE  
 SCREED RAKE APPLIED EPOXY FLOORING SYSTEM

**DESCRIPTION:**

3800 FS is a four-component, screed rake applied, epoxy slurry system installed at 1/4 inch (250 mils). 3800 FS is U.S.D.A. acceptable for food processing plants, and has excellent resistance to thermal shock, many acids, caustics, detergents, and other corrosive materials.

**ADVANTAGES:**

- Prepackaged - Easy To Use
- Excellent Adhesion
- Short Down Time – Quick Cure
- Easy to clean, U.S.D.A. acceptable.
- Chemical Resistant
- Environmentally safe.
- Moderate Slip Resistance – 30 mesh aggregate

**USES:**

- Loading Docks
- Food Production Plants
- Coolers and Freezers
- Warehouse Floors
- Forklift Aisle-ways
- Chemical Spill Containment Areas
- Industrial Production Facilities

**SUPPLEMENTAL PRODUCTS:**

- 3000 VS - Vertical Surfaces and Coves
- 3500 Grout - Refurbish Substrate
- 1000 CS Pigmented Topcoats
- 3000 FLEX
- Fibercoat - Reinforced Wall Coating

**PROPERTIES:**

<b>Compressive Strength</b>	11,500 psi ASTM C-579 (resin)
<b>Tensile Strength</b>	1,700 psi ASTM D-638 (resin)
<b>Flexural Strength</b>	3,500 psi ASTM C-580 (resin)
<b>Bond Strength</b>	Greater than 350 psi ASTM C-321 100% concrete failure
<b>Coefficient of Thermal Expansion</b>	1.2 x 10 <sup>-5</sup> in./in./°F
<b>Impact Strength</b>	130 in./lbs.
<b>Indentation</b>	No indentation MIL-D-3134F
<b>Flammability</b>	Does not Support combustion
<b>Working Time at</b>	20-30 minutes 75°F (24°C) ASTM C-308
<b>Shelf Life</b>	1 Year
<b>Colors</b>	Gray, Red
<b>Solids by Content</b>	By Weight 100% By Volume 100%

**PACKAGING AND COVERAGE:**

**3800 FS Mortar** – packaged in batches,  
- supplied by the UNIT - consisting of the following -  
**2 batch unit** – covers approximately 60 square feet at  
¼ inch (250 mils), consisting of the following -  
2 containers - Part A (resin)  
2 containers - Part B (hardener)  
2 bags - Part C (chemical resistant aggregate)  
50# - Part D (broadcast aggregate)

**20 batch unit** – covers approximately 600 square feet at  
¼ inch (250 mils), consisting of the following -  
20 containers - Part A (resin)  
20 containers - Part B (hardener)  
20 bags - Part C (chemical resistant aggregate)  
500# - Part D (broadcast aggregate)

**SURFACE PREPARATION:**

3800 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.

**MIXING:**

Prior to mixing, materials should be stored at 70°F (21°C) at least 48 hours.

Mortar: Empty the entire contents of Part A and Part B into a pail and mix thoroughly for two minutes. Slowly add the entire contents of Part C (aggregate) and continue mixing the three components, (Part A, B, and C) for an additional two minutes. Pour the entire batch onto the floor, immediately after mixing spread appropriately. If mortar is allowed to sit in the mixer the working time of the system will be reduced.

**APPLICATION:**

Substrate temperature should be 65°-85°F (18°-29°C) during installation, and for 28 days thereafter for complete cure. Do not apply 3800 FS when substrate temperature is below 55°F. Pour mortar mixture in a ribbon on the floor, spread evenly with a screed rake, and back-roll with a looped roller to smooth any irregularities in the film. Leaving a wet edge for the next batch, broadcast the Part D aggregate into the freshly leveled surface. Repeat process until entire floor is covered. After 3800 FS has hardened (approximately 8-12 hours), sweep off excess Part D from the broadcast coat. Unless otherwise specified, the 3800 FS flooring system is designed to follow the existing contour of the floor.

**CURE TIME:**

3800 FS will harden to foot traffic in 8-12 hours at 75°F (24°C). Maximum chemical resistance and physical properties will be attained after 96 hours at 75°F (24°C).

**CLEANUP:**

Cured or hardened 3800 FS will bond to practically all surfaces and is extremely difficult to remove. Clean all tools and mixer immediately after use 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 Part A and B, as the continuing exothermic reaction may cause container to explode. 3800 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.**

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