

## Product Data Sheet

### DESCRIPTION:

3800 CR is a four-component Novolac Epoxy, screed rake applied, slurry system installed at ¼ inch (250 mils). 3800 CR is U.S.D.A. acceptable for food processing plants, and has excellent resistance to most acids, caustics, detergents, and other corrosive materials.

### ADVANTAGES:

- Excellent Chemical Resistance – Including 98% Sulfuric Acid
- Excellent Adhesion
- Short Down Time – Quick Cure
- Easy to clean, U.S.D.A. acceptable.
- Environmentally safe.
- Moderate Slip Resistance – 30 mesh aggregate (broadcast aggregate can be substituted to preference).

### USES:

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

### SUPPLEMENTAL PRODUCTS:

- 3300 CR Veil Coat
- Fibercoat CR
- 2620 CR Lining System
- 3500 Grout - Refurbish Substrate
- 3000 FLEX

### PROPERTIES:

<b>Compressive Strength (ASTM C-579)</b> <resin>:	11,200 psi	<b>Bond Strength (ASTM C-321):</b>	350 psi; 100% concrete failure
<b>Tensile Strength (ASTM D-638)</b> <resin>:	1,850 psi	<b>Working Time at 75°F (24°C) (ASTM C-308):</b>	20-30 minutes
<b>Shelf Life:</b>	1 year	<b>Solids by Content:</b>	Weight: 100% Volume: 100%

<b>Flexural Strength (ASTM C-580)</b> <resin>:	3,300 psi	<b>Colors:</b>	Natural (typically sealed for color).
<b>Coefficient of Thermal Expansion:</b>	1.2 x 10 <sup>-5</sup> in./in./°F	<b>Indentation (MIL-D-3134F):</b>	No Indentation
<b>Impact Strength:</b>	130 in./lbs.	<b>Flammability:</b>	Does not support combustion

### PACKAGING AND COVERAGE:

**3800 CR Mortar** – packaged in batches, - supplied by the UNIT - consisting of the following -  
**4 batch unit** – covers approximately 120 square feet at ¼ inch (250 mils), consisting of the following -

- 4 containers - Part A (resin)
- 4 containers - Part B (hardener)
- 4 bags - Part C (chemical resistant aggregate)
- 100# - 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 CR 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 CR 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 CR has hardened (approximately 8-12 hours), sweep off excess Part D from the broadcast coat. Unless otherwise specified, the 3800 CR flooring system is designed to follow the existing contour of the floor.

**CURE TIME:**

3800 CR will harden to foot traffic in 8-12 hours at 75°F (24°C). Maximum chemical resistance and physical properties will be attained after 168 hours (7 days) at 75°F (24°C).

**CLEANUP:**

Cured or hardened 3800 CR 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 CR 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.

**Milamar Coatings, L.L.C.**

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