**PRODUCT PROFILE**

**GENERIC DESCRIPTION**  
Epoxy Modified Cementitious Mortar

**COMMON USAGE**  
A high-performance, aggregate reinforced material for surfacing, patching and filling voids and bugholes in concrete substrates. Generally topcoated with a variety of high-performance epoxies and polyurethanes for use in mild to aggressive exposures.

**COLORS**  
Greenish Gray

**COATING SYSTEM**

**SURFACER/FILLER/PATCHER**  
Concrete: Self-priming  
CMU: Self-priming

**TOPCOATS**

Series 217, 201, 205, 237SC, 239SC, 251SC, 252, 262 †, 264 †, 270, 280, 282, 406 †, 434, 435, 436, 446. **Note:** Refer to the applicable topcoat data sheet for additional information regarding color availability.  
† See the corresponding PDS for the recommended intermediate coat.

**SURFACE PREPARATION**

Prepare surfaces by method suitable for exposure and service. Refer to the appropriate topcoat product data sheet for specific surface preparation recommendations.

**CONCRETE**

Allow new cast-in-place concrete to cure a minimum of 28 days at 75°F (24°C). Verify concrete dryness in accordance with ASTM F 1869 “Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride” (moisture vapor transmission should not exceed three pounds per 1,000 square feet in a 24 hour period), F 2170 “Standard Test Method for Determining Relative Humidity in Concrete using in situ Probes” (relative humidity should not exceed 80%), or D 4263 “Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method” (no moisture present). Prepare concrete surfaces in accordance with NACE No. 6/SSPC-SP13 Joint Surface Preparation Standards and ICRI Technical Guidelines. Abrasive blast, shot-blast, water jet or mechanically abrade concrete surfaces to remove laitance, curing compounds, hardeners, sealers and other contaminants and to provide a minimum ICRI-CSP 5 surface profile. Large cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer.

**CMU**

Allow mortar to cure for 28 days. Level protrusions and mortar spatter.

**PAINTED SURFACES**

Not recommended.

**ALL SURFACES**

Must be clean, dry and free of oil, grease and other contaminants.

**TECHNICAL DATA**

**VOLUME SOLIDS**  
100% (mixed)

**RECOMMENDED DFT**

**Parge Coat:** 1/16”-1/4” per lift; maximum 1/2” thickness  
**Feather-edge Capable:** 1/32”

**CURING TIME**

<table>
<thead>
<tr>
<th>Temperature</th>
<th>To Touch</th>
<th>To Recoat with Itself</th>
<th>To Topcoat</th>
</tr>
</thead>
<tbody>
<tr>
<td>75°F (24°C) &amp; 50% R.H.</td>
<td>3-4 hours</td>
<td>unlimited</td>
<td>15 hours minimum</td>
</tr>
</tbody>
</table>

**VOLATILE ORGANIC COMPOUNDS**  
Unthinned: 0.13 lbs/gallon (1.6 grams/litre)

**HAPS**

0.00 lbs/gal solids

**NUMBER OF COMPONENTS**  
Three—Liquid: Part A and Part B  
Powder: Part C

**PACKAGING**

**PART A (Liquid)**  
Large Kit: 1 gal plastic jug  
Small Kit: 1 qt plastic jug

**PART B (Liquid)**  
Large Kit: 1 gal can  
Small Kit: 1 pt can

**PART C (Cement-Sand)**  
Large Kit: 42.77 lb bag  
Small Kit: 10.7 lb bag  
When Mixed: 3.0 gallons (11.4 L)

**NET WEIGHT**

Large Kit: 53.54 lbs (24.26 kg)  
Small Kit: 13.38 lbs (6.07 kg)

**STORAGE TEMPERATURE**

Minimum 40°F (4°C)  
Maximum 110°F (43°C)

For optimum handling and application characteristics, all material components should be stored or conditioned between 70°F to 90°F (21°C to 32°C) 48 hours prior to use. Protect Parts A & B from freezing; discard if frozen. Protect Part C from moisture; store in dry environment off ground.

**TEMPERATURE RESISTANCE**

(Dry) Continuous 170°F (77°C)  
Intermittent 200°F (93°C)

**SHELF LIFE**

12 months at recommended storage temperature.

**FLASH POINT - SETA**

N/A

**HEALTH & SAFETY**

This product contains chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product.  
Keep out of the reach of children.
**APPLICATION**

Before commencing, obtain and thoroughly read the Application Guide for Series 218-1000 MortarClad.

### COVERAGE RATES

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Large Kit</th>
<th>Small Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/16&quot; (1.6 mm)</td>
<td>77 sq ft (7.2 m²) theoretical</td>
<td>21 sq ft (2.0 m²) theoretical</td>
</tr>
<tr>
<td>1/8&quot; (3.1 mm)</td>
<td>88 sq ft (5.5 m²) theoretical</td>
<td>10 sq ft (0.9 m²) theoretical</td>
</tr>
<tr>
<td>1/4&quot; (6.4 mm)</td>
<td>19 sq ft (1.8 m²) theoretical</td>
<td>5 sq ft (0.5 m²) theoretical</td>
</tr>
</tbody>
</table>

Allow for application losses due to surface irregularities and substrate porosity.

### WORKING TIME

- **Mixing**: 45 Minutes at 75°F (24°C).

Pour liquid Part B into a container large enough to hold all components. Under agitation slowly add liquid Part A. When blended, slowly siftpowder, Part C, while continuing agitation. Do not disturb the liquids at one time. Mix for two minutes or until the cement-sand is thoroughly wetted and a smooth consistency is obtained. **Important: Do not add additional Part C.**

### MIXING

- **Large Kit**: For trowel applications, thin with up to 10 ounces of water. For spray transfer applications, thin with up to 20 ounces of water.
- **Small Kit**: Thin with 3 to 5 ounces of water.

**Note:** For best results, use clean cool tap water not exceeding 80°F (27°C). Thinning with warm water will significantly reduce working time.

### THINNING

- **Large Kit**: Thin with 3 to 5 ounces of water.
- **Small Kit**: Thin with 2 to 5 ounces of water.

**Note:** Thin with 3 to 5 ounces of water. Small Kit: Thin with 2 to 5 ounces of water. Thin with 3 to 5 ounces of water. Small Kit: Thin with 2 to 5 ounces of water.

### SUBSTRATE CONDITIONING

The concrete substrate surface shall be "pre-wet" or dampened with potable water to a Saturated Surface Dry (SSD) condition; the concrete is darkened by water but there is no pooling of water on the concrete. This can be done by using a Hudson pump-up sprayer or heavy nap roller cover dampened with potable water. **Note:** Do not over saturate the surface.

### APPLICATION EQUIPMENT

**Hand Troweling** can be accomplished using a mortar hawk, steel concrete finishing trowels, broad knives and rubber floats. For troweling inside and outside corners, the use of a radius or margin trowel is recommended. Material can be transferred to the surface by utilizing hydraulic spray equipment followed by troweling to seal the material. No special floats. For troweling inside and outside corners, the use of a radius or margin trowel is recommended. Material can be transferred to the surface by utilizing hydraulic spray equipment followed by troweling to seal the material. No special floats.

**Spray Application Equipment**

<table>
<thead>
<tr>
<th>Pump †</th>
<th>Fluid Line</th>
<th>Spray Gun</th>
<th>Fluid Tips</th>
<th>Fluid Pressure ‡</th>
<th>Atomizing Pressure</th>
<th>Hopper</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIWA 410 (9:1 Ratio) or 600 (12:1 Ratio)</td>
<td>25' 1&quot; Diameter 10' 3/4&quot; Diameter</td>
<td>WIWA Pole Gun</td>
<td>1/4&quot; to 3/8&quot;</td>
<td>Adjust at gun</td>
<td>Adjust at gun</td>
<td>6.5 Gallon Stainless Steel</td>
</tr>
<tr>
<td>Graco M680 10:1 Ratio</td>
<td>25' 1&quot; Diameter 10' 3/4&quot; Diameter</td>
<td>Flex Hose</td>
<td>No. 5 Nozzle</td>
<td>300 psi (Adjust as necessary)</td>
<td>Adjust at gun for proper atomization</td>
<td>10 Gallons Stainless Steel</td>
</tr>
</tbody>
</table>

† Pump must have a minimum of 2 gpm delivery.
‡ Listed pressure is at gun.

### SURFACE TEMPERATURE

Minimum of 45°F (7°C), optimum 65°F to 80°F (18°C to 27°C), maximum of 90°F (32°C). The substrate temperature should be at least 5°F (3°C) above the dew point.

### MATERIAL TEMPERATURE

For optimum application, handling and performance, the material temperature during application should be between 70°F and 80°F (21°C and 27°C). Temperature will affect the workability. Cool temperatures increase viscosity and decrease workability. Warm temperatures will decrease viscosity and shorten pot life.

### CLEANUP

Flush and clean all equipment immediately after use with warm water.

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