



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

PRIMERS **Concrete:** Self-priming
CMU: Self-priming

TOPCOATS Series 1, 20, 30, 46H-413, 61, 66, L69, N69, 84, 104, 120, L140, N140, 151-1051, 161, 201, 205, 222, 223, 224, 237, 238, 239, 262, 264, 270, 273, 275, 280, 281, 282, 434, 435, 436, 446.
Note: Refer to the applicable topcoat data sheet for color availability and additional information.

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 concrete to cure 28 days. Verify dryness by testing for the presence of moisture with the "Plastic Film Tape-Down Test" (Reference ASTM D 4263) or by other industry acceptable methods. When moisture is detected on horizontal surfaces, perform "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride" (Reference ASTM F 1869). Moisture content not to exceed three pounds per 1,000 sq ft in a 24 hour period. Abrasive blast or equivalent to remove laitance, form release agents, curing compounds, sealers and other contaminants and to provide surface profile in accordance with SSPC-SP13/NACE 6, ICRI CSP5. To repair large bugholes, honeycomb and other cavities deeper than the recommended maximum thickness, coarse aggregate (pea gravel) may be added (see note under Mixing section).

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

| Temperature | To Touch | To Recoat with Itself | To Topcoat |
|---------------------------|-----------|-----------------------|------------------|
| 75°F (24°C) & 50% R.H. | 3-4 hours | unlimited † | 15 hours minimum |

† **Note:** When the first application is equal to or greater than 1/4", or the second application is equal to or greater than 1/4", then the maximum recoat window with itself is 2 hours.

VOLATILE ORGANIC COMPOUNDS

NUMBER OF COMPONENTS

PACKAGING

Unthinned: 0.15 lbs/gallon (19 grams/litre)

Three—Liquid: Part A and Part B Powder: Part C

KITS CONSIST OF:

| | PART A (Liquid) | PART B (Liquid) | PART C (Cement-Sand) | When Mixed |
|-----------|--------------------|--------------------|-------------------------|----------------------|
| Large Kit | 1 gal plastic jug | 1 qt plastic jar | 42.75 lb bag | 2.8 gallons (10.6 L) |
| Small Kit | 1 qt plastic jug | 1 pt plastic jar | 10.7 lb bag | 0.7 gallon (2.6 L) |

NET WEIGHT

STORAGE TEMPERATURE

Large Kit: 51.53 lbs (23.37 kg) Small Kit: 12.88 lbs (5.84 kg)

Minimum 40°F (4°C) Maximum 110°F (43°C)
Condition material to 70°F-90°F before using for optimum results. Protect Parts A & B from freezing; discard if frozen. Protect Part C from moisture; store in dry environment off ground.

TEMPERATURE RESISTANCE

SHELF LIFE

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

12 months at recommended storage temperature.

FLASH POINT - SETA

HEALTH & SAFETY

N/A

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.

MORTARCLAD™ | SERIES 218

APPLICATION

COVERAGE RATES

| Thickness | Large Kit | Small Kit |
|-----------|--|---|
| 1/16" | 72 sq ft (6.7 m ²) theoretical | 18 sq ft (1.7 m ²) theoretical |
| 1/8" | 36 sq ft (3.3 m ²) theoretical | 9 sq ft (.84 m ²) theoretical |
| 1/4" | 18 sq ft (1.7 m ²) theoretical | 4.5 sq ft (.42 m ²) theoretical |

See packaging section for kit contents.

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

Maximum performance is obtained when the Series 218 is applied to form a continuous, void-free film. When using Series 218 the surface should 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 using a Hudson pump-up sprayer or heavy nap roller cover dampened with potable water. **Note:** Do not oversaturate the surface.

MIXING

Pour liquid Part A into a container large enough to hold all components. Under agitation slowly add liquid Part B. When blended, slowly sift powder, Part C, while continuing agitation. Do not dump all of the Part C into 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.**

Note: For repair of large bugholes, honeycomb and other cavities deeper than the recommended maximum thickness, 20-25 lbs of multi-purpose clean sand (conforming to ASTM C 33) or 15-18 lbs of locally purchased pea gravel (coarse aggregate) can be post added to create "dry-pack" mortar. One half inch to No. 8 size (12.5 mm to 2.36 mm) pea gravel conforming to ASTM C 33 is recommended. Contact your Tnemec representative or Tnemec Technical Services for additional information.

THINNING

Normally not required. For low-pressure spray application to transfer the Series 218, may thin up to 6 oz. for large kit or up to 2 oz. for small kit. Use only potable water.

POT LIFE

1 hour at 75°F (24°C).

Caution: Thinning with high temperature water will significantly reduce the pot life. For best results, water temperature should not exceed 80°F (27°C).

APPLICATION EQUIPMENT

Mortar Hawk, steel, stiff concrete finishing trowels, broad knives and rubber floats are recommended. 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 (i.e. 11:1 Grover grout pump or 9:1 WIWA 410 pump) followed by troweling to seal the material.

For a smoother finished appearance, trowel licks may be reduced by using water to lightly dampen a 1/4" nap roller cover over the sealed Series 218 material. **Note:** If white liquid is brought to the surface during this process, the Series 218 material is being overworked and/or oversaturated. Overworking or oversaturating the surface may have an adverse effect on the adhesion of subsequent coatings applied. Let Series 218 cure and remove surface deposit using concrete rub brick.

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 90°F (21°C and 32°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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