



Epoxy.com Product #1009

Self Leveling Polymer Modified Cement

EPOXY.COM PRODUCT #1009 Repair Mortar is a polymer modified cement-based topping. It is ideal for leveling and or resurfacing distressed, rough and/or uneven concrete floors. It is easy to use. Add potable water at the jobsite.

ADVANTAGES:

- Self Levels
- Excellent compressive and bond strengths
- Normal set time, with early and continued strength gains past 28 days
- Ready for light traffic after 3 hours; return to service in 24 hours
- Highly Durable
- Single component Polymer modified Cement Based Product
- Easy Mixing and Placement
- High slump (highly fluid) - facilitates easy placement by hand or pump
- Resistant to cracking
- Resists gouging from normal construction activities.
- Strip forms one day after placement

WHERE TO USE:

- Interior or Exterior concrete floors
- Food and Beverage plants
- Elevated Concrete Slabs
- Parking Decks
- Utility, Water, Waste Water, and Pulp and Paper plants

PHYSICAL PROPERTIES:

		1day	7day	28days
Compressive Strength	ASTM C 109 (Mod)	2100 psi (14 MPa)		6000 psi (41 MPa)
Flexural Strength	ASTM C 293		1000 psi (7 MPa)	
Bond Strength	ASTM C882 modified		1750 psi (12 MPa)	
Tensile Strength	ASTM C190		850 psi (5.8 MPa)	
Set Time @ 75F	Gillmore Needle ASTM C266	Initial: 1 hr 20 min Final: 2 hrs		

SURFACE PREPARATION:

Substrate must be sound, fully cured, clean and free of oil, SURFACE PREPARATION:

Substrate must be sound, fully cured, clean and free of oil, coating, dust and/or other foreign matter that may act as a bond breaker. Remove all broken pieces, weak, and/or loose material. Use mechanical methods of surface preparation such as abrasive blasting, shotblasting, or hydroblasting to obtain adequate surface preparation. Profile surface must be a minimum of CSP5 in accordance with ICRI No. 03732.

APPLICATION: Dilute Epoxy.com Product # 825 Primer 1:1 with potable water. Apply a thin film of diluted primer to the properly prepared substrate using a push broom. One gallon of diluted Primer will cover approximately 250-300 sf. Do not allow to puddle. *PRIMER must be tacky before the application of Product #1009.* If the concrete is very porous 2 coats of primer may be needed.

Mixing: Add to potable water to **EPOXY.COM PRODUCT #1009** at a rate of 4 qts (3.8L) to a 50 lb bag of **EPOXY.COM PRODUCT #1009**. Always add the Product #1009 to the water, not the water to the **EPOXY.COM PRODUCT #1009**. Use normal mechanical mixers appropriate for mixing concrete with coarse aggregate. Mix **EPOXY.COM PRODUCT #1009** with measured water for 3-5 minutes.

Placing: Pour the product over the prepared substrate or pump it through a suitable pump to the desired thickness. The minimum thickness is ¼ inch. **EPOXY.COM PRODUCT #1009** will seek its own level in approximately 15 minutes at 75°F (23°C). For hard to reach areas and touch up use a spreader or come-along. For thick pours **EPOXY.COM PRODUCT #1009** may be extended by adding 25 lbs (11.3KG) of clean 3/8 (6mm) inch gravel. Adding Aggregate will impede the flow. A small amount of water can be added to help this, but do not exceed an addition ¼ qt of additional water when adding gravel. Leave gravel extended material ¼ inch low, allow to cure for 24 hours, then recap with a non-gravel filled cap.

Note: To avoid reflective cracking always cut or form joints in topping directly over the joints and/cracks in the substrate.

Cleanup: Clean tools and application equipment immediately after use with water before the Epoxy.com Product #1009 Hardens. Remove hardened Epoxy.com Product #1009 with abrasive cleaning.

Curing: Keep moist for three days in conditions of high Temperatures (>85°F), high wind or low humidity. Protect from direct sunlight in high temperature environments. Do NOT use solvent base curing compounds. To seal use an appropriate sealing compound like Epoxy.com Product #223 – www.epoxy.com/223.htm.

For Best results:

Precondition these materials to approximately 70Degrees F (21C) for 24 hours before using.

Conduct a 10 by 10 ft test application to become familiar with the product characteristics and to verify the ultimate appearance.

Do not apply over fresh, plastic concrete.

To ensure proper bond apply primer to mechanically prepared substrate before applying.

Do not over water. Do not use in continuously wet or moist environments.

Proper application is the responsibility of the user.

Recommendations by Epoxy.com personnel are just that, recommendations only.

Final field verification of the suitability of the product is the responsibility of the consumer.

PACKAGING:

EPOXY.COM PRODUCT #1009 is packaged in 50 lb. (22.7 Kilo) bags. Each bag yields approximately .5 cubic feet when mixed 1 bag of Product #1009 with 8 lbs. (4 quarts) of potable water.

LIMITATIONS:

Do not apply below 40° F (7.2° C) surface temperature

Use in thicknesses greater than 1/4 inch

Protect fresh concrete from rain and freezing

Do not use to repair horizontal areas as an overlay where the surface would remain unrestrained during cure

Shelf Life: 1 year when properly stored.

Storage: Keep in closed containers. Store in a clean Dry area, with temperatures between 50 and 90 degrees F (10 and 32 degrees C.)

NOTES:

CAUTION:

WARNING! CONTAINS FREE SILICA & PORTLAND CEMENT. DO NOT BREATHE DUST. May cause delayed lung injury (silicosis). Follow OSHA safety and health standards for crystalline silica (quartz). Cement powder or freshly mixed concrete, grout or mortar may cause skin injury. Avoid contact with skin and wash exposed skin areas promptly with water. If any cement powder or mixture gets into the eyes, rinse immediately and repeatedly with water and get prompt medical attention.

FOR INDUSTRIAL USE ONLY KEEP AWAY FROM CHILDREN

For more information please contact:

Epoxy.com.

352-489-1666 (Phone)

352-465-3497 (Fax)

info@epoxy.com

www.epoxy.com

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