

# GARONCLAD™

## Epoxy Mortar System



**PRODUCT DESCRIPTION:**  
GARONCLAD™ is a five part fast setting 100% solids epoxy mortar repair system that is

designed for applications where excellent wear characteristics are required.

**RECOMMENDED FOR:**

Recommended for heavy traffic areas where wear resistance is necessary.

**SOLIDS BY WEIGHT:**

100%

**SOLIDS BY VOLUME:**

100%

**VOLATILE ORGANIC CONTENT:**

Zero

**STANDARD COLOR:**

Gray

**RECOMMENDED APPLICATION:**

PRIMER – (4-6 wet mils)

MORTAR – (1/4" thick)

**COVERAGE PER UNIT:**

A unit will treat 12 square feet

**PACKAGING INFORMATION**

Primer: (1 pint part A & 1 ½ pint part B)

Mortar: (1 quart part A & 1 quart part B & 1 bag of part C)

**MIX RATIO:**

Primer: (317.5 grams part A & 157 grams part B) Mortar: (2.3# part a & 1.0# part b & 29.0# part C)

**SHELF LIFE:**

2 years in unopened containers

**FLEXURAL STRENGTH:**

14,000 psi @ ASTM D790

**COMPRESSIVE STRENGTH:**

11,500 psi @ ASTM D695

**TENSILE STRENGTH:**

10,000 psi @ ASTM D638

**PRIMER ADHESION:**

400 psi @ elcometer (concrete failure, no delamination)

**TENSILE ELONGATION:**

4.1%

**ABRASION RESISTANCE:**

Excellent

**IMPACT RESISTANCE:**

Excellent

**HEAT DEFLECTION TEMPERATURE:**

140F @ ASTM D648

**VISCOSITY:**

Primer mixed = 3000-4000 cps typical

Mortar part A = 500-800 typical

Mortar part B = 200-300 typical

**DOT CLASSIFICATIONS:**

Primer Part A “not regulated”

Primer Part B “CORROSIVE LIQUID N.O.S.,

8, UN1760, PGIII, Marine Pollutant”

Mortar Part A “not regulated”

Mortar Part B “CORROSIVE LIQUID N.O.S.,

8, UN1760, PGIII, Marine Pollutant”

Mortar Part C “not regulated”

**CURE SCHEDULE: (70°F)**

pot life.....10-15 minutes

light foot traffic.....6-8 hours

full cure (heavy traffic).....2-7 days

**APPLICATION TEMPERATURE:**

40-80 degrees F

REAGENT	RATING
Xylene	B
Methanol	A
Skydrol	A
10% sodium hydroxide	E
50% sodium hydroxide	D
10% sulfuric acid	C
70% sulfuric acid	A
10% HC1 (aq)	C
5% acetic acid	A

**CHEMICAL RESISTANCE:**

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion. NOTE: extensive chemical resistance information is available through your sales representative.

**PRIMER:**

Included in unit

**TOPCOAT:**

None Required

**LIMITATIONS:**

- Color stability or gloss may be affected by high humidity, low temperature.
- Product is not UV color stable and may discolor if exposed to lighting such as sodium vapor lights.
- Test data based on neat resin.
- Physical properties are typical values and not specifications.
- Colors may vary from lot to lot due to silica fillers.
- For chemical exposure areas, we recommend a suitable topcoat to reduce porosity and chemical migration.
- Mixtures of chemicals and applications with exposures to chemicals at

elevated temperatures should be thoroughly evaluated before applying.

- Substrate temperature must be 5°F above dew point.
- All new concrete must be cured for at least 30 days prior to application.
- See reverse side for limitations of our liability and warranty.
- Improper mixing may result in product failure.

**MIXING AND APPLICATION INSTRUCTIONS**

1) **PRODUCT STORAGE:** Store product in an area as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degrees F. Low temperatures or great temperature fluctuations may cause product crystallization.

2) **SURFACE PREPARATION:** All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. We recommend that an aggressive shot blast be performed prior to the application of this product. A less adequate method would be acid etching, but the etch should properly profile the substrate. All edges and around columns or beams should be mechanically scarified. All termination points should not be feather edged but should be saw cut with the termination ending at the sawcut. All large cracks should be V cut and filled with an appropriate crack filler. All expansion joints should be filled with an appropriate joint filler. When overlaying an expansion joint, a single saw cut through the epoxy overlay will prevent random fracturing. A test should be made to determine that the concrete is dry; this can be done by placing a 4'x4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.

3) **PRIMER:** Add the entire contents of GARONCLAD™ PRIMER part B to GARONCLAD™ PRIMER part A and mix thoroughly for approximately 1-2 minutes. Immediately brush or roll the mixed GARONCLAD™ PRIMER onto the surface to be treated. The supplied amount of GARONCLAD™ PRIMER will be enough to properly treat 12 sq.ft.

4) **PRODUCT MIXING:** Add the entire contents of GARONCLAD™ MORTAR parts A & B into a plastic mixing pail and mix thoroughly for approximately 1 minute. With the mixer running slowly, immediately begin to slowly add the contents of the part C. Once the part C is added entirely, continue to mix for 1-2 minutes before applying over area pre-treated with GARONCLAD™ PRIMER. Do not allow longer than 6 hours to elapse between primer treatment and mortar

treatment. If more than 6 hours has elapsed, the primed surface must be abraded and re-treated with GARONCLAD™ PRIMER. The supplied amount of GARONCLAD™ MORTAR will be enough to properly treat 12 sq.ft. @ ¼" thick.

5) **PRODUCT APPLICATION:** Apply the mixed material at 1/4 inch thickness. Apply the material with a hand trowel or other suitable application equipment. Do not over-trowel the material as this may cause isolated blisters to form. Air currents directly above or across the mortar may also cause isolated blisters to form. Maintain temperatures within the recommended ranges during the application and curing process.

6) **RECOAT OR TOPCOATING:** No recoating or top coating is necessary. However, if you opt to top coat the applied mortar, allow it

to cure before top coating.

7) **CLEANUP:** Use Xylol

8) **FLOOR CLEANING:** Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

9) **RESTRICTIONS:** Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle.

**COLOR SPECIFICATIONS:**  
**COLOR - GRAY**

#### **NOTICE TO BUYER:**

#### **DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY**

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. **NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT.** We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may **CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.**