

# MIMIC

**Trowel applied,  
color matched,  
single component repair mortar  
for natural stone,  
cast stone and terracotta.**

**WHERE TO USE**  
**Repair and reconstruct**  
**brownstone, sandstone,**  
**limestone, cast stone,**  
**terracotta and concrete.**

## PERFORMANCE CHARACTERISTICS

- **Low shrinkage**
- Maintains integrity of repair, resists cracking.
- **Thermal compatibility**
- Prevents delamination due to temperature change.
- **Durable**
- Resistant to weathering action, excellent freeze/thaw stability and abrasion resistance.
- **Very low permeability**
- Resistant to deicing salts, chloride, and chemical attack, and environmental pollution.
- **Breathability**
- Will not cause damage to structure by restricting moisture vapor flow.
- **Shaveable**
- Recreate sharp edges and architectural details.
- **Single component**
- Easy to batch in less than full pail quantities.
- **Extensive color spectrum**
- Available in 19 standard colors and factory color matching.

## SURFACE PREPARATION

- Remove loose and deteriorated material, laitance, dirt, dust, oil and any surface contaminants that will inhibit proper bond.
- Saw cut edges with a diamond blade at a 90° angle to eliminate feather edging. Avoid polishing the edges, as this will inhibit bond.
- Avoid bruising or micro cracking during surface preparation. Refer to ICRI Surface Preparation Guide 03732.
- Repair zone must be a minimum of 1/2 inch deep, of simple geometry, with no complex edge conditions.
- Avoid long narrow repairs; these have a greater tendency to crack.

- Apply *Conpro Start* where a consolidant is of benefit.
- Saturate substrate with clean water, (saturated surface dry/SSD), with no standing water during *Priming* or *Application*.
- Remove concrete from corroded steel and several inches beyond to expose non-corroded steel.
- Provide a 3/4 inch clearance between the concrete and steel.
- Damaged reinforcing steel should be inspected by a qualified engineer and appropriate action taken.

## PRIMING

### Stone, Terracotta and Concrete

- Prime the prepared substrate including all edges with a slurry coat of *MIMIC*. Work the slurry into the substrate to ensure intimate contact and establish bond. The repair material must be applied while slurry is wet. If the slurry dries, remove and recoat.

### Embedded Metal and Steel

- Remove all scaling rust from embedded metal and steel.
- Apply *ECB* anti-corrosion coating.

## MIXING

- Mechanically mix using a low speed drill (400 - 600 rpm) and mixing paddle or mortar mixer.
- Pour 2-1/2 quarts of potable water into a clean mixing vessel and slowly add all of the powder.
- Mix continuously for 3 minutes to a uniform, lump-free consistency.
- Add up to 1 pint of additional water if needed.
- Additional water will affect final color. For multiple batches do not vary the water addition rate.
- Mix only as much material as can be placed in 15 - 20 minutes.
- Do not over mix, as this will entrain excess air.
- Do not re-temper, this can affect color.

## APPLICATION

- At the time of application, surfaces should be saturated surface dry (SSD) but hold no standing water.
- Follow instructions for *Priming*.
- Force the material against the edges of the repair, working toward the center.
- Material may be applied in multiple lifts of not less than 1/2 inch and no greater than 2 inches.
- Consolidate each lift and allow to stiffen to thumb-print hard before continuing.
- Scratch (cross-hatch) each lift to prepare surface for subsequent lift.
- Over-build final lift by 1/4 inch.
- Shave to final form with trowel edge up to 2 hours after application.
- Do not overwork the finish.
- Finishing techniques and the age of the material when shaved will have a significant affect on the appearance of the color.

## CURING

- Keep damp with a fine mist of water for 24 hours. Refer to ACI 308R-01 for detailed curing recommendations. If repair is inaccessible, tape polyethylene over area to retain moisture. Do not allow polyethylene to contact material.
- Protect repair from direct sunlight, wind, rain and frost during curing period.

## CLEAN UP

- Clean tools and equipment with water immediately after use. Cured material must be removed mechanically.

# MIMIC

## COVERAGE/YIELD

- 0.42 ft.<sup>3</sup>/50 lbs.

## PRODUCT HANDLING

### Packaging

- 50 lbs. plastic pails.

### Shelf Life

- 18 months when properly stored.

### Storage

- Transport and store in cool, clean, dry conditions in unopened containers.
- High temperature or high humidity will reduce shelf life.

## LIMITATIONS

- Do not apply unless substrate and ambient temperature can be maintained at a minimum of 40°F for 24 hours. Refer to ACI Cold Weather Application Guidelines.
- Cold mixing water and low temperature will retard set. Hot water and high temperature will accelerate set.
- Protect application from precipitation and high wind for at least 24 hours.
- Do not add more water than specified – this will affect color and weaken material.
- Do not re-temper, as this will affect color.
- Avoid overworking material during placement as this will affect color and cause surface checking.
- Do not allow polyethylene or burlene to touch surface while curing as this will cause whitening of the material.

## HEALTH AND SAFETY

- Product is alkaline.
- Do not ingest.
- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Refer to Material Safety Data Sheet (MSDS) for additional information.

## FIRST AID

- In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with a high volume of water for at least 15 minutes and contact a medical professional. For respiratory problems, remove person to fresh air.

## DISPOSAL

- Dispose of material in accordance with local, state or federal regulations.

## TECHNICAL DATA

|                                   |           |  |         |         |
|-----------------------------------|-----------|--|---------|---------|
| Physical state and appearance     |           | Dry, pigmented powder                  |         |         |
| Base                              |           | Portland cement                        |         |         |
| pH                                | Wet mix   | >12                                    |         |         |
| Water/dry material ratio          |           | 0.12                                   |         |         |
| Water/cement ratio                |           | 0.50                                   |         |         |
| Dry bulk density                  | ASTM C188 | 93 lbs./ft. <sup>3</sup>               |         |         |
| Setting time by vicat needle      | ASTM C191 | Initial 30 minutes – Final 120 minutes |         |         |
| Water vapor transmission          | ASTM E96  | 5.7 perms                              |         |         |
| Length change                     | ASTM C157 | 500 µstrains @ 28 days                 |         |         |
| Slant shear bond strength – epoxy | ASTM C882 | 1250 psi                               |         |         |
| Compressive strength* – psi       | ASTM C109 | 7 Days                                 | 14 Days | 28 Days |
| Tensile strength – psi            | ASTM C307 | 250                                    | 475     | 530     |

\*Data presented applies to non-pigmented base material where noted.

### FOR PROFESSIONAL USE ONLY

Conproco Corp. warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current technical data sheet if used as directed within shelf life. User determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. March 2008.

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