

## EMACO® R310

- Description:** One component, polymer-modified, flowable, chloride and carbonation-resistant surface renovation mortar.
- Application:** Horizontal and formed vertical applications in interior and exterior environments.
- Packaging:** EMACO R310 is packaged in 55 lb (25 kg) moisture-resistant bags. The yield is approximately 0.45 ft<sup>3</sup> (0.013 m<sup>3</sup>) per 55 lb (25 kg) bag.
- Storage Life:** EMACO R310 has a shelf life of approximately 12 months when stored in a cool, dry environment. The expiration date is printed on each bag.
- Coverage:** A 55 lb (25 kg) bag of EMACO R310 mortar will cover approximately 5.4 ft<sup>2</sup> (0.56 m<sup>2</sup>) at a 1 in. (25 mm) thickness.

### **IMPORTANT: READ THIS FIRST**

Master Builders does not warrant the performance of this product unless the instructions of this document and other related Master Builders documents are adhered to in all respects.

### **DIRECTIONS:**

#### **Surface Preparation:**

1. Square cut or undercut the perimeter of the area to be patched to a minimum depth of 1/4 in. (6 mm). Do not cut the reinforcement.
2. Chip unsound concrete within the area to be repaired to a minimum depth of 1/4 in. (6 mm) or to what-ever additional depth is necessary to reach sound concrete.
3. Remove areas that have been saturated with oil or grease.
4. Thoroughly clean the roughened surface and exposed reinforcement of rust, dirt, loose chips and dust. High pressure water works well. The surface should remain damp. **(In preparing steel, sandblast or shotblast after chipping. Refer to the International Concrete Repair Institute Publication entitled "Surface Preparation Guidelines for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Oxidation").**
5. Form as required on vertical surfaces.
6. Saturate the area thoroughly with water prior to placing the mortar.
7. Immediately prior to mixing, blow off or remove all excess water from repair area. Surface should be saturated, surface dry (SSD).

**Mixing:**

Mechanical mixing is recommended with use of a slow speed drill (400 to 600 rpm) and a Jiffier-type paddle, or in an appropriate size mortar mixer. Add approximately 3/4 gal (2.8 L) of clean water to the mixing container to obtain a flowable, workable consistency. Add the contents of the bag to the container while continuing to mix. Mix to a uniform consistency. Typical mixing time is 3 to 5 minutes. **Do not** mix longer than 5 minutes.

**Formed Applications:**

1. Apply form release agent.
2. Erect forms for EMACO R310.
3. Apply caulk or tape to make form edges water tight.
4. Check formed sections for water tightness before installing EMACO R310.
5. Remove forms on the following day.

**Application and Finishing:**

Apply the mortar on top of the prewetted substrate.

Apply a bond coat slurry of the mortar to a properly prepared substrate by scrubbing a fluid mix of EMACO R310 into the surface with a stiff bristle broom or brush. Do not apply more of the slurry than can be covered with EMACO R310 before the bond coat starts to set. Do not retemper the bond coat.

Minimum application thickness is 1/4 in. (6 mm), maximum application thickness is 1 in. (25 mm). For applications up to 3 in. (76 mm) thickness, an extension of 25 lb (45%) rounded pea gravel 3/8 in. per 55 lb bag of EMACO R310 is required. EMACO R310 may be finished by hand or machine similarly to other concrete placements. Where rapid surface evaporation may occur, in hot, dry or windy conditions, use CONFILM® Evaporation Reducer.

**Curing:**

EMACO R310 mortar must be cured properly. Apply MASTERKURE® 200W curing compound in accordance with label instructions as soon as the surface cannot be marred by the application. **Do Not Use** solvent based curing compounds. Sheeting material, wet burlap or fog spray may be used in lieu of curing compounds. Minimum curing time for wet curing is two days.

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