

## EMACO® R300

- Description:** One component, polymer-modified, thixotropic, chloride and carbonation-resistant surface renovation mortar.
- Application:** Vertical, overhead and horizontal pedestrian applications in interior and exterior environments.
- Packaging:** EMACO R300 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 R300 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 R300 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 1/8 in. (3 mm). Do not cut the reinforcement.
2. Chip unsound concrete within the area to be repaired to a minimum depth of 1/8 in. (3 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. Saturate the area thoroughly with water prior to placing the mortar.
6. 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 0.8 gal (3.0 L) of clean water to the mixing container to obtain a flowable consistency. Use approximately 0.7 gal (2.7 L) water for a stiffer consistency such as is required for vertical or overhead applications. 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.

**Application and Finishing:**

Apply the mortar on top of the prewetted substrate.

Apply a bond scrub coat of the mortar to a properly prepared substrate by scrubbing a fluid mix of EMACO R300 into the surface with a stiff bristle broom or brush. Do not apply more of the slurry than can be covered with EMACO R300 before the bond coat starts to set. Do not retemper the bond coat.

Maximum application thickness is 1/4 in. (6 mm) for horizontal applications; 1 in. (25 mm) for vertical and overhead applications. EMACO R300 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 R300 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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