

## MASTERSEAL® 510

- Description:** One component, polymer modified, cement-based waterproofing and protective coating.
- Application:** Positive side waterproofing, dampproofing and protective coating for improving the appearance of mortar, masonry and concrete.
- Packaging:** MASTERSEAL 510 is packaged in 55 lb (25 kg) moisture-resistant bags. The yield is approximately 4.00 gal (15.14 L) per 55 lb (25 kg).
- Storage Life:** MASTERSEAL 510 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 MASTERSEAL 510 mortar will cover approximately 50 ft<sup>2</sup>/gal (1.23 m<sup>2</sup>/L) or 200 ft<sup>2</sup>/unit (18.6 m<sup>2</sup>/unit) at a 31 mils thickness and coat.

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

Master Builders, Inc. 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. Remove concrete surface within the area to be repaired to a maximum depth of 1/8 in. (3 mm).
2. Wherever additional depth is necessary to reach sound concrete, patch the area prior to the application of MASTERSEAL 510 with EMACO® R300 or other Master Builders patching mortar.
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 coating.
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. Pour approximately 90% of the required clean mixing water into the mixing container; then 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.

Recommended mix ratios are:

Brush Applications:	1.15 to 1.45 gal/55 lb bag	(4.35 to 5.49 L/25 kg bag)
Trowel Applications:	0.95 to 1.25 gal/55 lb bag	(3.60 to 4.73 L/25 kg bag)
Spray Applications:	1.45 to 1.65 gal/55 lb bag	(5.49 to 6.24 L/25 kg bag)

**Application and Finishing:**

Apply the coating on top of the prewetted substrate.

Apply MASTERSEAL 510 by means of a stiff brush, broom, trowel or spray equipment.

The recommended application thickness per coat for hand trowelling or brush applications is approximately 31 mils depending on expected water pressure and substrate profile. The required performance is achieved by applying two coats.

For large areas MASTERSEAL 510 can be applied using a hopper gun, carousel pump or Moyno screw type low pressure spraying equipment as commonly used for plastering.

**Curing:**

In instances where the coating will be subject to continuous contact with water, it is necessary to wet cure the surface using wet burlap, burleen or fog spray for three days, followed by two days of air drying prior to the being placed into service. Wet curing should only be done when the surface can no longer be marred by a brush or when the coating has sufficiently hardened. Protect new applications from rain, strong wind and intense sunlight.

**Master Builders, Inc.**

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