

MASTERSEAL® 550

- Description:** Flexible, ready-to-use, polymer-modified, cement-based waterproofing and protective coating.
- Application:** Positive and negative side waterproofing, dampproofing and protective coating for beautifying concrete, mortar and masonry surfaces.
- Packaging:** MASTERSEAL 550 is packaged in units consisting of a 1.5 gal (5.7 L) pail of liquid polymer (Component A) and a 55 lb (25 kg) moisture-resistant bag of powder (Component B). The yield is approximately 4.00 gal (15.14 L) per 68 lb (31 kg) unit.
- Storage Life:** MASTERSEAL 550 has a shelf life of approximately 12 months when stored in a cool, dry environment. The expiration date is printed on each unit.
- Coverage:** A 68 lb (31 kg) unit of MASTERSEAL 550 mortar will cover approximately 55 ft²/gal (1.35 m²/L) or 220 ft²/unit (20.4 m²/unit) at a 31 mils 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. Remove all deteriorated, unsound and contaminated concrete surfaces within the area to be repaired to a maximum depth of 1/8 in. (3 mm). Limit the size of chipping hammers to 15 lbs to reduce micro fractures.
2. Wherever additional depth is necessary to reach sound concrete, patch the area prior to the application of MASTERSEAL 550 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. Coat exposed reinforcing steel with EMACO® P22 rebar protection coating prior to patching and coating.
6. Saturate the area thoroughly with water prior to placing the coating.
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 heavy duty drill (400 to 600 rpm) and a Jiffier-type paddle with a "mud" type blade, or in an appropriate size mortar mixer. Pour approximately 80% of the Component A (liquid polymer) into the mixing container; then slowly add the contents of the Component B (powder) 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. Depending on application, add remaining Component A as required for proper consistency.

Application and Finishing:

Apply MASTERSEAL 550 on top of the prewetted substrate by means of a trowel, brush, or spray equipment.

Apply MASTERSEAL 550 only when ambient and surface temperatures are 45 °F (7 °C) and rising. Do not apply coating if the ambient temperature is expected to fall below 45° F (7 °C) within 24 hours after placement. Do not apply coating when surface temperature is 90 °F (32 °C) and above.

Trowel & Brush Applications:

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 (cross direction - one vertical and one horizontal).

Spray Applications:

For large areas MASTERSEAL 550 can be applied using a Moyno, carousel or screw-type low pressure spraying machine as would commonly be used for plastering.

Curing:

In applications where the coating will be subjected to continuous contact with water, it is necessary to moist cure the surface for three days using wet burlap, burleen or fog spray, followed by four days of air drying prior to the being placed into service. Moist 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.

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