

**SECTION 03731**  
**EMACO® P22**  
*FLEXIBLE, CEMENTITIOUS REBAR COATING*

**NOTE TO SPECIFIERS**

The purpose of this suggested specification is to assist the specifier while developing a specification for the use of Master Builders *EMACO® P22*. This specification has been prepared to be part of a complete project specification. It has not been prepared to be a “stand alone” item. This document is not intended to be copied directly into project specifications.

**PART 1 - GENERAL**

**1.01 Related Documents**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, apply to this Section.

**1.02 Summary**

- A. This Section specifies a two component, flexible, cementitious-based rebar coating.
- B. This Product is designed for providing corrosion protection to existing reinforcing steel that is exposed during concrete rehabilitation.

**1.03 References**

ASTM E 754-80      Standard Test Method for Pullout Resistance of Ties and Anchors Embedded in Masonry Mortar Joints.

**1.04 Project Conditions**

- A. Weather Conditions: Apply corrosion resistant coating only when ambient and surface temperatures are 40 °F (5 °C) and rising.

**PART 2 - PRODUCTS**

**2.01 Materials**

- A. Corrosion Resistant Coating: “EMACO® P22” by Master Builders, Inc., a two-component material that when blended, applied and dried produces a material that inhibits corrosion to reinforcing steel.

### 3.01 Surface Preparation

- A. Where reinforcing steel with active corrosion is encountered, comply with the following:
  - 1. Abrasive blast reinforcing steel to remove rust and contaminants to achieve a white metal finish.
  - 2. If half of the diameter of the reinforcing steel is exposed, chip out behind the reinforcing to a 1/2 in. (13 mm) minimum depth.
  - 3. Splice new reinforcing steel to existing where corrosion has depleted the cross-section area by 25%, as directed by the Architect/Engineer.
- B. Thoroughly clean the roughened surface and exposed reinforcement of rust, dirt, loose chips, and dust using high pressure water or oil-free compressed air.

### 3.02 Mixing

- A. Pour component A (white liquid) into a pail. Slowly add component B (orange red powder) stirring constantly until a homogenous, lump free compound is obtained.

### 3.03 Application

- A. Immediately after removal of the rust, coat the reinforcement completely with the corrosion resistant material using a medium hard brush. Apply two layers to achieve a total thickness of approximately 80 mils. Apply the second layer as soon as the first is dry enough to be wiped.
- B. Patching mortar can be applied to restore the section as soon as the coating is not tacky.  
**Patching mortar must be placed within seven days after coatings are applied.**

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