

# GUIDE SPECIFICATION FOR MEADOW-PATCH® T1 CEMENTITIOUS THIN REPAIR PATCH MORTAR

SECTION 03930

CEMENTITIOUS REPAIR MORTAR

Specifier Notes: This guide specification is written according to the Construction Specifications Institute (CSI) format. The section must be carefully reviewed and edited by the architect or engineer to meet the requirements of the project. Coordinate this section with other specification sections and the drawings.

Specifier Notes: W. R. MEADOWS MEADOW-PATCH T1 is a one-component, polymer-modified, cementitious repair mortar designed for horizontal, vertical and overhead applications. This all-purpose mortar is designed for maintenance patching and minor repairs 1" to featheredge. MEADOW-PATCH T1 is an ideal choice for smoothing rough surfaces, repairing honeycombs and dressing up bug holes. When mixed, this creamy consistency provides an excellent skim coating for swimming pools, concrete walls, balconies, etc. Because of its excellent bond and freeze-thaw resistance, MEADOW-PATCH T1 may be used for interior and/or exterior and below-, above- or on-grade applications

## PART 1 GENERAL

### 1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Application of one-component, polymer-modified cementitious thin repair mortar.

### 1.02 RELATED SECTIONS

Specifier Notes: Edit the list of related sections as required for the project. List other sections dealing with work directly related to this section.

- A. Section 2770 - Concrete Walks, Curbs, and Gutters.
- B. Section 03300 - Cast-in-Place Concrete.
- C. Section 03400 - Precast Concrete.

### 1.03 REFERENCES

- A. ASTM C191 - C191-04b Standard Test Method for Time of Setting of Hydraulic Cement by Vicat Needle.
- B. ASTM C109 - C109/C109M-02 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2" or [50 mm] Cube Specimens).
- C. ACI 308 - Standard Practice for Curing Concrete.
- D. ICRI Technical Guide No. 03730.

### 1.04 SUBMITTALS

- A. Comply with Section 01330 - Submittal Procedures.
- B. Submit manufacturer's product data and application instructions.

## 1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Store materials in a clean, dry area in accordance with manufacturer's instructions.
- C. Protect materials during handling and application to prevent damage or contamination.

## 1.06 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply below 40° F (4° C) or above 90° F (32° C) or when rain is imminent.
- B. Protect from conditions that may cause early water loss: high winds, low humidity, high temperature and direct sunlight.

## PART 2 PRODUCTS

### 2.01 MANUFACTURER

- A. W. R. MEADOWS, INC., PO Box 338, Hampshire, Illinois 60140-0338. (800) 342-5976. (847) 683-4500. Fax (847) 683-4544. Web Site [www.wrmeadows.com](http://www.wrmeadows.com).

### 2.02 MATERIALS

- A. Cementitious Thin Repair Mortar
  - 1. Performance Based Spec: Cementitious thin repair mortar shall be one-component, polymer-modified cementitious mortar having the following characteristics.
    - a. Initial Set ASTM C191: 2 hours
    - Final Set ASTM C191: 3 hours
    - b. Compressive Strength ASTM C109: 1 day 3000 psi (20.7 MPa)
    - 28 days 6500 psi (44.8 MPa)
- B. Proprietary Based Specification:
  - .1 MEADOW-PATCH T1 cementitious thin repair mortar by W. R. MEADOWS.

### 2.03 ACCESSORIES

- A. Concrete Curing Compound: 1100-CLEAR CURING COMPOUND, 1220-WHITE PIGMENTED CURING COMPOUND or VOCOMP®-20 CURING AND SEALING COMPOUND by W. R. MEADOWS.
- B. Acrylic Latex Bonding Agent: ACRY-LOK™ by W. R. MEADOWS.
- C. Epoxy Bonding Agent: REZI-WELD™ 1000 medium viscosity epoxy bonding agent by W. R. MEADOWS.
- D. Evaporation Retarder: EVAPRE™ by W. R. MEADOWS.

## PART 3 EXECUTION

### 3.01 EXAMINATION

- A. Examine surfaces to receive membrane. Notify engineer if surfaces are not acceptable. Do not begin surface preparation or application until unacceptable conditions have been corrected.

### 3.02 SURFACE PREPARATION

- A. Mechanically abrade existing substrate to remove all unsound concrete, ensuring excessive force is not used. Mechanical grinding, sanding or wire brushing are not approved surface preparation methods.
- B. Prepare surface in accordance with ICRI Technical Guide No. 03730.
- C. Ensure substrate is structurally sound and free of grease, oil, dirt or any other contaminants that can adversely affect the bond.
- D. Ensure prepared surface is dust-free and has a sufficient profile to ensure adequate mechanical lock (minimum 1/8" (3 mm)) and its concrete pores must be open).
- E. Ensure substrate must be saturated surface dry (SSD) and free of standing water.
- F. For enhanced bond, prime (SSD) substrate with slurry coat (two parts powder to one part acrylic bonding agent).
- G. Allow slurry coat to become tacky prior to application of repair mortar, ensuring that the slurry coat does not become tack free.
- H. For optimal bond, prime substrate with medium-viscosity epoxy structural bonding agent.

### 3.03 APPLICATION

- A. Mixing
  - .1 Mix repair mortar in accordance with manufacturer's instructions using a mortar-type mixer, ensuring water requirements are adhered to.
  - .2 Slowly add powder and mix to desired consistency, using up to 0.5 (0.47L) additional quarts of clean water as needed.
  - .3 Mix for three minutes or until lump-free consistency is obtained.
  - .4 For small repairs, mix in a clean vessel using a variable-speed drill with a paddle mixer at 400-600 rpm.
  - .5 Mix only complete bags.
  - .6 Do not mix more material than can be placed and finished in 30 min. at 77° F (25°C).
- B. Placement
  - .1 Apply repair mortar into the repair zone substrate by compacting the material well against the properly prepared substrate.
  - .2 Finish surface with steel or wood trowel or sponge float. Never re-temper.
  - .3 Do not exceed a length-to-width ratio of 2 to 1 for the repair area.
  - .4 Do not exceed a maximum application thickness of 1" (25 mm).
  - .5 When conditions exist for rapid early water loss, apply evaporation retarder according to manufacturers instructions.
- C. Curing
  - .1 Cure repair mortar immediately following application using a suitable water-based curing compound in accordance with ACI 308.
  - .2 Do not use solvent-based curing compounds.
  - .3 When conditions exist for early water loss, wet cure for 24 hours immediately followed by an application of a water-based curing compound.

END OF SECTION