



W. R. MEADOWS

SEALTIGHT

## DATA SHEET NO. 3900-512

### MEADOW-PATCH® T1

#### One-Component, Polymer-Modified, Thin Patch Repair Mortar

##### DESCRIPTION

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 25.4 mm (1") thickness to featheredge.

##### USES

MEADOW-PATCH T1 is versatile, easy to mix and apply, and produces horizontal repaired surfaces suitable for rubber-wheeled traffic. (For resurfacing applications, please refer to SPECTRUM RE-KOTE TF or MEADOW-PATCH T2 from W. R. MEADOWS.) For overhead or vertical use, MEADOW-PATCH T1 is an ideal choice for smoothing rough surfaces, repairing honeycombs, and dressing up bug holes. When mixed, its creamy consistency provides an excellent repair mortar for concrete walls, horizontal slabs, precast concrete elements, concrete stairs, balconies, etc. Because of its excellent bond and freeze-thaw resistance, MEADOW-PATCH T1 may be used for interior and/or exterior applications: below-, above- or on-grade.

##### FEATURES/BENEFITS

- Polymer modified - Enhanced bond.
- Low permeability - Protects embedded reinforcing steel.
- Enhanced flexural and tensile properties.
- Breathable - Will not act as a vapour barrier.
- Excellent freeze-thaw characteristics - Long-term stability.
- Creamy consistency - Easily finished

##### PACKAGING

22.7 Kg (50 Lb.) Poly-Lined Bags

##### COLOUR

Standard grey and light grey (greyish white). Minor colour variations from different batches, water addition, application conditions, and curing procedures are normal.

##### YIELD AND COVERAGE

Yield per bag is 0.014 m<sup>3</sup> (0.50 ft.<sup>3</sup>) Coverage per bag is 5 m<sup>2</sup> @ 3 mm (55 ft.<sup>2</sup> @ 1/8")

##### SHELF LIFE

One year from date of manufacture when stored indoors on pallets in a dry, cool area. Do not store product outside.

##### TECHNICAL DATA

###### Set times per ASTM C 191

Initial	2 hours
Final	3 hours

###### Compressive strength per ASTM C 109

@ 1 day	20.7 MPa (3000 psi)
@ 28 days	44.8 MPa (6500 psi)

All technical data is typical information and will vary due to testing methods, conditions, procedures, batching, and raw material variances.

##### APPLICATION

**Surface Preparation ...** Prepare concrete substrate in accordance with International Concrete Repair Institute (ICRI) Technical Guideline #310.2R-2013: Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair. Mechanically roughen or high pressure water-jet existing concrete substrate to a minimum concrete surface profile (CSP) of CSP-4 or higher, depending on substrate condition. Remove all unsound concrete and provide a profiled, porous surface. Substrate must be structurally sound, dust-free, and free of grease, oil, dirt, curing compounds, release agents, or any other surface or penetrated contaminants that will adversely affect bond. Sanding, cup grinding, or wire-abrading are not approved surface preparation methods. Substrate must be saturated, surface dry (SSD) and free of standing water.

Prime SSD substrate with slurry coat consisting of two parts powder to one part water or ACRY-LOK™ from W. R. MEADOWS (for enhanced bonding). Do not allow slurry coat to become dry or tack-free. If slurry coat becomes dry or tack-free prior to application of the bulk mix, reapply slurry coat after the already primed substrate has been properly saturated to SSD condition. For increased bond, prime substrate with REZI-WELD™ 1000 from W. R. MEADOWS and follow surface prep and application procedures as outlined on that data sheet.

### W. R. MEADOWS® OF CANADA

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**Mixing** ... Using a mortar-type mixer, add 2.8 L (3 U.S. quarts) of clean water per 22.7 kg (50 lb.) bag of MEADOW-PATCH T1. Slowly add powder and mix to desired consistency, using up to 0.47 L (0.5 U.S. quarts) of clean water only as needed. The properly mixed product should have the consistency of a light, creamy, clay-like material that is easily worked, but should not be free-flowing. Mix for three minutes or until lump-free consistency is obtained. Do not over-mix. For small repairs, mix in a clean vessel using a variable-speed drill with a paddle mixer at 400 - 600 rpm. Mix only complete bags. Do not mix more material than can be placed and finished in 30 minutes at 25° C (77° F).

**Placement** ... Apply MEADOW-PATCH T1 into the repair zone substrate by compacting the material well against the properly prepared substrate. Finish surface with steel or wood trowel or sponge float. Never re-temper. Follow American Concrete Institute (ACI) 305 "Standard on Hot Weather Concreting" or ACI 306 "Standard on Cold Weather Concreting" when applicable.

**Curing** ... Cure MEADOW-PATCH T1 immediately following application using a suitable water-based curing compound from W. R. MEADOWS or in accordance with ACI 308. Use 1220-WHITE or 1100-CLEAR series from W. R. MEADOWS for curing. (Do not use solvent-based curing compounds.) When conditions exist for early water loss, such as, but not limited to, high temperature [32° C (90° F)], high winds, direct sun, low humidity, or thin and/or small area patches, wet cure for 24 hours and apply 1220-WHITE or 1100-CLEAR series curing compound.

#### PRECAUTIONS

MEADOW-PATCH T1 is recommended for concrete patch repairs only. Not intended to be used as a self-leveling underlayment, overlay, or topping. Do not apply below 4° C or above 32° C or when rain is imminent. Do not bridge moving cracks. Extend existing control and expansion joints through MEADOW-PATCH T1. Do not exceed a length-to-width ratio of 2 to 1 for the repair area. Do not add any admixtures. Exceeding liquid requirements shall result in reduced physical properties. Realize that set time will decrease as the product, air, substrate, and mixing liquid temperature increases and will be increased as the temperature decreases. Featheredging may result in reduced durability and performance. Maximum application thickness should not exceed 25.4 mm (1"). Protect from conditions that may cause early water loss: high winds, low humidity, high temperature, direct sunlight. Early water loss is amplified

in thin and/or small area applications. The use of extender aggregate will alter physical properties. Failure to follow ACI concreting practices and industry standard practices will result in decreased material performance.

#### HEALTH AND SAFETY

Contains Portland cement and crystalline silica (sand) which are suspected carcinogens. Avoid direct contact. Skin and eye irritant. Dust may cause respiratory tract irritation. Follow OSHA safety regulations when handling. Avoid inhalation of dust. Utilize chemical-resistant gloves and safety glasses to minimize direct contact. May cause serious delayed lung injury (silicosis).

If contact occurs, wash affected areas with mild soap and water. For eye contact, flush with water for a minimum 15 minutes and contact a physician immediately. Keep product out of reach of children. For industrial use only. Not for consumption. This product contains silicon dioxide, which is classified by the IARC and NTP as probably carcinogenic to humans (IARC Group 2A). The use of NIOSH-approved respiratory protection is strongly recommended.

Refer to Safety Data Sheet for complete health and safety information.

#### MASTERFORMAT NUMBER AND TITLE

03 01 30.61 - Resurfacing of Cast-In-Place Concrete

#### LEED INFORMATION

May help contribute to LEED credits:

- MRc9: Construction and Demolition Waste Management

For most recent data sheet, further LEED information, and SDS, visit [www.wrmeadows.com](http://www.wrmeadows.com).

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