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(Supersedes February 2005)

## MEADOW-PATCH® 20

Light Gray, Fast Setting, General Purpose Cementitious Repair Mortar

### DESCRIPTION

MEADOW-PATCH 20 is a one-component, cementitious, fast setting restoration/repair mortar. This product has a light gray color and is designed for vertical, overhead, and horizontal applications. This fast setting, low slump repair mortar may be troweled, shaped, molded, and shaved before taking a final set. MEADOW-PATCH 20 is an excellent patching solution for difficult vertical and overhead applications without using expensive forming techniques.

### USES

MEADOW-PATCH 20 is easy to mix and apply. This fast-setting, low slump mortar is designed to minimize downtime. Because of its versatility, MEADOW-PATCH 20 can be used vertically, horizontally, or overhead. Whether the installation is interior or exterior, MEADOW-PATCH 20 is an excellent choice for fast repairs above-, below-, or on-grade. Typical applications include repairs to curb and gutters, precast concrete elements, tie-rod holes, concrete pipe, columns, beams, or any other general-purpose repair.

### FEATURES/BENEFITS

- Architectural-grade, light gray color.
- Low slump design for easy molding and shaping/No forms needed.
- May be feathered-edged/Tenacious bond.
- May be used vertically, horizontally, or overhead/Highly versatile.
- Excellent freeze-thaw characteristics/Long term repair stability.
- Fast setting/Increases turnaround time.
- Highly suitable for precast and cast-in-place concrete patching.
- Designed to aesthetically blend with typical concrete.
- Suitable for concrete pipe construction work.

### PACKAGING

50 Lb. (22.7 Kg) Pail  
50 Lb. (22.7 Kg) Bag

### COVERAGE

MEADOW-PATCH 20 yield per 50 lb. bag is 0.45 ft.<sup>3</sup> (0.013 m<sup>3</sup>).

### SHELF LIFE

For bags, 18 months from date of manufacture when stored indoors on pallets in a dry, cool area. For pails, two years when stored indoors on pallets in a dry, cool area. Do not store product outside.

### TECHNICAL DATA

Set times per ASTM C 191:

Initial 8 - 12 minutes

Final 15 - 20 minutes

Compressive strength per ASTM C 109:

@ 3 hours: 1,200 psi (8.2 MPa)

@ 1 day: 2,500 psi (17.2 MPa)

@ 7 days: 6,000 psi (41.3 MPa)

@ 28 days: 6,500 psi (44.8 MPa)

For applications requiring faster set time, MEADOW-PATCH 5 from W. R. MEADOWS is recommended.

### APPLICATION

**Surface Preparation** ... Prepare concrete substrate in accordance with ICRI Technical Guideline #310.2: Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer Overlays. Mechanically roughen or high pressure water-jet existing concrete substrate to a minimum concrete surface profile 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 medium-viscosity structural bonding agent

**CONTINUED ON THE REVERSE SIDE...**

#### W. R. MEADOWS, INC.

P.O. Box 338 • HAMPSHIRE, IL 60140-0338  
Phone: 847/214-2100 • Fax: 847/683-4544  
1-800-342-5976  
www.wrmeadows.com • info@wrmeadows.com

HAMPSHIRE, IL / CARTERSVILLE, GA / YORK, PA  
FORT WORTH, TX / BENICIA, CA / POMONA, CA  
GOODYEAR, AZ / MILTON, ON / SHERWOOD PARK, AB

from W. R. MEADOWS and follow surface prep and application procedures as outlined on that data sheet.

**Mixing** ... MEADOW-PATCH 20 requires 3.5 - 4 quarts (3.30 - 3.78 L) of potable water per bag depending on desired consistency. Mix for three minutes or until homogenous and until lump-free. Do not mix more material than can be placed and finished within 8 - 12 minutes at 77° F (25° C). Do not over-mix. MEADOW-PATCH 20 may be mixed with 1.25 gallons (4.7 L) of ACRY-LOK per bag to achieve greater durability and enhanced performance.

**Placement** ... Compact MEADOW-PATCH 20 into properly prepared (SSD) substrate prior to bulk placement. Finish surface with a wood or steel trowel or sponge float. MEADOW-PATCH 20 may be applied up to 2" (51 mm). Do not re-temper or over-work product. Follow ACI 305 "Standard on Hot Weather Concreting" or ACI 306 "Standard on Cold Weather Concreting," when applicable.

**Curing** ... Cure MEADOW-PATCH 20 immediately following application using a suitable water-based curing compound from W. R. MEADOWS, or in accordance with ACI 308. W. R. MEADOWS recommends the 2200-WHITE or 1100-CLEAR series for curing. (Do not use solvent-based curing compounds.) When conditions exist for early water loss, such as, but not limited to, high temperature [90° F (32° C)], high winds, direct sun, low humidity, or thin and/or small area patches, we recommend wet curing for 24 hours, immediately followed by an application of 2200-WHITE or 1100-CLEAR series curing compound.

## PRECAUTIONS

MEADOW-PATCH 20 is recommended for concrete repairs only. It is not intended to be used as a self-leveling underlayment or topping; MEADOW-PATCH 20 is designed as a trowel down repair mortar. Do not apply below 35° F (1.7° C) or above 90° F (32.2° C) or when rain is imminent. Protect from freezing for a minimum 24 hours. Do not bridge moving cracks. Extend existing

control, construction, and expansion joints through MEADOW-PATCH 20. For large areas with no control, expansion or construction joints, refer to ACI guidelines. The length-to-width ratio of the repair area should not exceed 2 to 1. 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 increase and will increase as the temperature decreases. Featheredging may result in reduced durability and performance. Maximum application thickness should not exceed 2" (51 mm) when applied neat. Protect from conditions that may cause early water loss such as wind, low humidity, high temperature, direct sunlight. Early water loss is also amplified in thin applications. Failure to follow industry standard practices may result in decreased material performance.

## HEALTH AND SAFETY

Avoid direct contact with this product, as it may cause skin and eye irritation. Utilize gloves and safety glasses to minimize direct contact. Avoid inhalation of dust. Inhalation may cause respiratory irritation and/or lung disease (silicosis). 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 recommended in dusty environments. Refer to Safety Data Sheet for complete health and safety information. Keep product out of reach of children.

## LEED INFORMATION

May help contribute to LEED credits:

- MR Credit 2: Construction Waste Management
- MR Credit 4: Recycled Content
- MR Credit 5: Regional Materials

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



### LIMITED WARRANTY

W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. Read complete warranty. Copy furnished upon request.

### Disclaimer

The information contained herein is included for illustrative purposes only, and to the best of our knowledge, is accurate and reliable. W. R. MEADOWS, INC. cannot however under any circumstances make any guarantee of results or assume any obligation or liability in connection with the use of this information. As W. R. MEADOWS, INC. has no control

over the use to which others may put its product, it is recommended that the products be tested to determine if suitable for specific application and/or our information is valid in a particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection therewith.