



DATA SHEET NO. 3900-387

MEADOW-PATCH® 5

Very Fast-Setting, General Purpose Cementitious Repair Mortar and Hydraulic Waterstop

DESCRIPTION

MEADOW-PATCH 5 is a one component, cementitious, very fast setting restoration/repair mortar designed for vertical, overhead, and horizontal applications, as well as for stopping active fluid seepage. This very fast-setting, low slump repair mortar may be troweled, shaped, molded, and shaved before taking a final set. MEADOW-PATCH 5 is an excellent patching solution for difficult vertical/overhead applications without using expensive and intricate forming techniques.

USES

MEADOW-PATCH 5 is easy to mix and apply. This very fast setting, low slump mortar is designed to minimize downtime. Because of its versatility, MEADOW-PATCH 5 can be used vertically, horizontally, or overhead. Whether the installation is interior or exterior, MEADOW-PATCH 5 is an excellent choice for fast repairs above-grade, below-grade, or on-grade. Typical applications include repairs to curbs and gutters, pre-cast concrete elements, tie-rod holes, concrete pipe, columns, beams, or any other general-purpose repairs. MEADOW-PATCH 5 may also be used as a water plug to effectively stop minor active fluid seepage.

FEATURES/BENEFITS

- Suitable for concrete pipe construction work.
- 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.
- May be used as a hydraulic waterstop.
- Light grey in colour.
- Designed to aesthetically blend with typical concrete.
- Highly suitable for pre-cast and cast-in-place concrete patching.

PACKAGING

22.7 kg (50 lb.) Bags
22.7 kg (50 lb.) Pails

COVERAGE

MEADOW-PATCH 5 yields 0.013 m³ (0.45 ft.³) per 22.7 kg (50 lb.) bag.

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 C191

Initial	3 - 5 minutes
Final	6 - 8 minutes

Compressive strength per ASTM C 109

@ 1 day	20.7 MPa (3,000 psi)
@ 28 days	44.8 MPa (6,500 psi)

APPLICATION

Surface Preparation ... Prepare surface in accordance with International Concrete Repair Institute (ICRI) Technical Guidelines No. 03730. Mechanically abrade existing substrate to remove all unsound concrete, but do not use excessive force, which may cause micro-fracturing. Substrate must be structurally sound and free of any contaminant that will adversely affect bond. Prepared surface must be dust-free and have sufficient profile to ensure adequate mechanical lock.

Completely expose all reinforcing steel, ensuring a minimum clearance of 19.1 mm (3/4") behind reinforcing steel. Perform reinforcing steel preparation in accordance with ICRI Technical Guidelines No. 03730.

Pre-soak repair zone prior to application of slurry coat to a saturated, surface dry (SSD) condition and free of standing water. Prime SSD substrate with a slurry coat (two parts MEADOW-PATCH 5 powder to one part water or ACRY-LOK™ from W. R. MEADOWS). Allow slurry coat to become tacky prior to application of MEADOW-PATCH 5. Do not allow slurry coat to become tack-free.

As a hydraulic plug, cut or notch out the crack, joint, or void to a minimum dimension of 19.1 mm x 19.1 mm (3/4" x 3/4"). To ensure proper mechanical lock, the bottom of the newly notched opening should be wider than the top. The substrate must be sound and free of all contaminants and must be SSD.

Continued over ...

W. R. MEADOWS® OF CANADA

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Mixing ... MEADOW-PATCH 5 requires approximately 3.3 - 3.78 L (3.5 - 4 U.S. quarts) of potable water per 22.7 kg (50 lb.) bag, depending on desired consistency. Mix until homogenous. Do not mix more material than can be placed and finished within 3 - 5 minutes at 25° C (77° F). Do not over mix. MEADOW-PATCH 5 may be mixed with 4.7 litres (1.25 U.S. gallons) of ACRY-LOK per 22.7 kg (50 lb.) bag to achieve greater durability and enhanced performance.

Placement ... Compact MEADOW-PATCH 5 into properly prepared SSD substrate prior to bulk placement. Finish surface with a wood or steel trowel or sponge float. MEADOW-PATCH 5 may be applied up to 51 mm (2"). Do not re-temper or over-work product. Follow American Concrete Institute (ACI) 305-R89 "Standard on Hot Weather Concreting" or ACI 306-R88 "Standard on Cold Weather Concreting" when applicable.

Force MEADOW-PATCH 5 directly into prepared crack and hold in place, maintaining pressure until material hardens. For jobs requiring a faster set time, the use of MEADOW-PLUG™ from W. R. MEADOWS, an extremely fast chemical activity hydraulic plug with a set time of 90 - 120 seconds, may be necessary.

Curing ... Cure MEADOW-PATCH 5 immediately following application using a suitable curing compound from W. R. MEADOWS or in accordance with ACI 308. 1000-CLEAR from W. R. MEADOWS is recommended for curing. When conditions exist for rapid early water loss, the use of EVAPRE™, an evaporation retarder from W. R. MEADOWS, is also recommended.

PRECAUTIONS

MEADOW-PATCH 5 is recommended for concrete repairs only. Not intended to be used as topping, for re-sloping, or as an underlayment. MEADOW-PATCH 5 is designed as a trowel down repair mortar to repair deteriorated or defective concrete. Do not apply below 1.7° C or above 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 5. 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 increases and will increase as the temperature decreases. Featheredging may result in reduced durability and performance. Maximum application thickness should not exceed 51 mm (2") when applied neat. Protect from conditions that may cause early water loss: high winds, low humidity, high temperature, direct sunlight. Early water loss is also increased 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.

MASTERFORMAT NUMBER AND SECTION

03 01 40.71 - Rehabilitation of Precast Concrete

For most recent data sheet, further LEED information, and SDS, visit www.wrmeadows.com.

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