



DATA SHEET NO. 8170-050

MEADOW-PATCH® SMOOTH-GRADE

One-Component, Polymer-Modified, Concrete Surface Finisher

DESCRIPTION

MEADOW-PATCH SMOOTH-GRADE is a single-component, polymer-modified, cement-based, sands-free material used for achieving an ultra-smooth finish on precast, cast-in-place, tilt-up or other unfinished concrete surfaces. This product offers superior adhesion and durability. It is not a vapor barrier, contains no added gypsum, has excellent workability for trowel application, and has an extended pot life of up to 45 minutes, which provides enhanced working time.

USES

MEADOW-PATCH SMOOTH-GRADE is versatile, easy to mix and apply, with its smooth consistency and extended working time, is an excellent product for filling imperfections in newly placed or existing concrete surfaces. MEADOW-PATCH SMOOTH-GRADE is an ideal choice for smoothing rough surfaces, repairing honeycombs, and dressing up air voids, bug holes, or other small surface defects. When mixed, its creamy consistency provides an excellent concrete wash, parging, sacking material for both new and existing concrete walls, precast concrete elements, cast-in-place concrete, or existing concrete or block.

MEADOW-PATCH SMOOTH-GRADE may be applied up to 1/8" (25.4 mm) thick for resurfacing and smoothing, but can also be placed up to 1/2" (12.7 mm) thick in a single application vertically to fill in minor surface defects. Because of its excellent bond and freeze-thaw resistance, MEADOW-PATCH SMOOTH-GRADE may be used for interior and/or exterior applications: below-, above- or on-grade. MEADOW-PATCH SMOOTH-GRADE is also designed to smooth and level minor surface defects or elevations on concrete slabs prior to installation of a floor covering.

FEATURES/BENEFITS

- Polymer-modified/Enhanced bond - no sand.
- Creamy consistency/Easily finished.
- Long working time/Up to 45 mins at 23.9° C.
- Extended set time/Re-tempers without adding water.
- Fast finishing time/potentially sanded and painted same day or next day.

- Enhanced flexural and tensile properties/4.8 MPa (6500 ps) compressive strength.
- Permeable/Will not act as a vapor barrier.
- Excellent freeze-thaw characteristics/Long-term stability.

PACKAGING

22.7 kg (50 Lb.) Bags

COVERAGE

Yield per bag is 0.011 m³ (0.50 ft.³). Coverage per bag is 9.3 m² @ 1.5 mm (100 ft.² @ 1/16").

SHELF LIFE

Twelve (12) months 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	2 Hours
Final	3 Hours

Compressive Strength (per ASTM C109)

3 Day	27.6 MPa (4000 psi)
7 Day	35.2 MPa (5100 psi)
28 Day	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.

COLOUR

Light grey/precast grey. Minor colour variations from different batches, water addition, application conditions, and curing procedures are normal.

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APPLICATION

Surface Preparation ... Prepare concrete substrate in accordance with 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 of CSP-2 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. Substrate must be saturated, surface dry (SSD) and free of standing water.

Mixing ... Mix in a clean vessel using a variable-speed drill with a Jiffy type mixer at 400 - 600 rpm. Product may be mixed by hand. Use 5.2 - 6.1 L (11 - 13 pints) of clean water per bag of MEADOW-PATCH SMOOTH-GRADE. Slowly add powder and mix to desired consistency, using up to additional pint (0.47 L) of clean water, only as needed. Use of excessive water will reduce strength, causes crazing and may cause dusting under rapid drying conditions. Mix for three minutes or until lump-free consistency is obtained. Do not over-mix. 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 only complete bags. Do not mix more material than can be placed and finished in 45 minutes at 23° C.

Increased durability, hardness and bond can be achieved by replacing one-half of the mixing water with ACRY-LOK™ from W. R. MEADOWS. This will also aid in the curing process during rapid drying conditions.

Placement ... Minimum ambient and surface temperature must be 5° C and rising at the time of application. Substrate must be SSD and free of standing water.

Apply MEADOW-PATCH SMOOTH-GRADE by compacting, scrubbing, or forcing the material well against the properly prepared substrate by brush or trowel onto the substrate, forcing the material into all pores and voids. 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 in accordance with ACI 308 or use a suitable water-based curing compound from W. R. MEADOWS. Do not use solvent-based curing compounds. When conditions exist for early water loss, such as, but not limited to, high temperature (32° C), high winds, direct sun, low humidity, use a fog curing system.

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WARRANTY: W. R. Meadows of Canada warrants that, at the time and place we make shipment, our materials will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM OF TRADE OR OTHERWISE. As the exclusive remedy for breach of this Warranty, we will replace defective materials, provided, however, that the buyer examine the materials when received and promptly notify us in writing of any defect before the materials are used or incorporated into a structure. Three (3) months after W. R. Meadows of Canada has shipped the materials, all our Warranty and other duties with respect to the quality of the materials delivered shall conclusively be presumed to have been satisfied, all liability therefore terminates and no action for breach of any such duties may thereafter be commenced. W. R. Meadows of Canada shall in no event be liable for consequential damages. Unless otherwise agreed to in writing, no warranty is made with respect to materials not manufactured by W. R. Meadows of Canada. We cannot warrant or in any way guarantee any particular method of use or application or the performance of materials under any particular condition. Neither this Warranty nor our liability may be extended or amended by our salesmen, distributors or representatives, or by our distributor's representatives, or by any sales information or drawings.

PRECAUTIONS

Do not apply below 5° C or when rain is imminent. Do not allow the product to freeze until fully cured. MEADOW-PATCH SMOOTH-GRADE shall not be used without cover of a standard flooring system. Do not bridge moving cracks. Extend existing joints through MEADOW-PATCH SMOOTH-GRADE. 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. Not designed for steel-wheel or casting-type exposure. 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. Failure to follow ACI concreting practices and standard industry practices will result in decreased material performance.

HEALTH AND SAFETY

FOR INDUSTRIAL USE ONLY. Refer to Safety Data Sheet for complete health and safety information. Keep product out of reach of children.

MASTERFORMAT NUMBER AND TITLE

03 01 00 - Maintenance of 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.

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