



ONE COMPONENT TROWEL PATCH

MANUFACTURER

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GENERAL USES

For the structural repair of deteriorated concrete. Trowel Patch can be used above or below grade and on horizontal surfaces.

FEATURES

- Superior adhesion.
- Similar modulus of elasticity to concrete.
- Extremely low shrinkage.
- Vapor permeable.
- Resistant to freeze/thaw cycling.
- Easy to apply and finish. Aggregate may be added for applications over 2 inches thick.
- Contains a corrosion inhibitor.
- Coatings may be applied after 72 hours.

INSTRUCTIONS FOR USE

Surface Preparation: All surfaces must be clean and free of dirt dust, paint, sealers, coatings, loose material, adhesives, curing compounds or any material that will inhibit patching material from coming in contact with the concrete pores. Tight, steel troweled concrete should be abraded or etched with sulfamic or muriatic acid solution, then neutralized to open up the concrete pores. Removal of any anti adherents or loose materials must be accomplished mechanically with a wire brush, chipping hammer, or by sand or water blasting. Solvents or strippers are not acceptable.

Mixing: For normal applications, add 4/5 gallon of water in a clean container. Slowly add Trowel Patch Powder. Mixing can be achieved either manually or mechanically. Mechanical mixing is preferred for, quantities greater than 1 bag. Mixing should continue until a uniform, lump-free consistency is obtained. Avoid over mixing which could lead to over aeration of the mix. Additional water may be added to achieve the proper consistency. DO NOT over water.

Application: Dampen the surface thoroughly with clean water to a saturated surface dry (SSD) condition. While the surface is damp, fill the desired area with Trowel Patch to a maximum thickness of 2 inches. Alternatively, prime

surface with UNIVERSAL POLYMER CONCENTRATE diluted one to one with water or an epoxy bonding agent. After rough leveling and consolidation, the product can be finished to desired texture. For applications greater than 2 inches in thickness, 1/4 to 3/8 inch aggregate should be added. A clean, uniformly graded saturated surface dry aggregate, suitable for use in concrete, is required and it should be added at the rate of 30 pounds per 60 pound bag of Trowel Patch. Protect from rain until initial set has been achieved.

Curing: The formulation of Trowel Patch minimizes the need for curing. However, application in direct sunlight or in windy conditions may lead to rapid surface drying. The use of a curing compound that complies with ASTM C-309 or damp curing is recommended.

Limitations: Ambient surface temperatures must be 38 F. or above during application.
Minimum thickness: 1/4 inch.
Maximum thickness: 2 inches without aggregate addition.

Clean Up: Remove uncured Trowel Patch from tools and equipment with water, Cured material may only be removed mechanically.

PACKAGING

60-pound bag.

COVERAGE

60 pounds will yield approx. 0.50 cubic feet.

PRECAUTIONS

Contains Portland cement: avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. In case of eye contact, flush with plenty of water for 15 minutes. Consult a physician immediately. Keep out of reach of children. Contains free silica - DO NOT breathe dust, May cause delayed lung injury. Follow OSHA safety and health standards for crystalline silica (quartz). See material safety data sheet for detailed information.



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TECHNICAL DATA

Compressive Strength
ASTM C-109 Mortar (Mod.)
1 day 1810 psi
7 days 3440 psi
28 days 5500 psi

Flexural Strength
ASTM C-78
1 day 600 psi
7 day 1100 psi
28 day 2000 psi

Bond Strength
ASTM C-882 Modified
1 day 600 psi
7 day 1400 psi
28 day 1800 psi

Shrinkage (inch/inch)
ASTM C-596
1 day < 0.0005>
7 day < 0.0007>
28 day < 0.0007>

Water Absorption
ASTM 0-642
28 day 3.5

Rapid Chloride Permeability
ASTM C-1202
28 day 1100

Modulus of Elasticity
ASTM C-469
28 day 2.2x10.6