



TROWEL PATCH

2 COMPONENT

MANUFACTURER

A.W. Cook Cement Products
242 Amy Industrial Lane
Hoschton, GA. 30548
Phone (706) 654-3677
Fax (706) 654-3662

GENERAL USES

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

FEATURES

- Superior adhesion.
- Similar modulus of elasticity to concrete.
- Vapor permeable.
- Resistant to freeze/thaw cycling.
- Easy to mix, apply and finish.
- Contains a corrosion inhibitor
- Coatings may be applied after 72 hours of placement.

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, mix 4/5 gallon of the A component in a clean container. Add the B component. 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 liquid may be added to achieve the proper consistency.

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 4 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 4 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 Screed 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 arid surface temperatures must be 38 F. or above during application.

Minimum thickness: 1/8 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

A Component: 1-gallon plastic jug.

B Component: 60-pound bag.

COVERAGE

60 pounds will yield approx. 0.50 cubic feet.

STORAGE AND HANDLING

Shelf Life: 12 months in the original, unopened container.

Storage: Store in a dry area away from direct sunlight. The product should be conditioned to between 40 F and 95 F before use. Protect the A component from freezing. If frozen, the product must be discarded.



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TECHNICAL DATA

Compressive Strength Mortar

ASTM C-109 Modified

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

Abrasion Resistance Grams lost 1/4"

APCI

28 day 1

Modulus of Elasticity

ASTM C-469

28 day 2.2x10.6

PRECAUTIONS

Contains Portland cement: avoid eye contact and prolonged contact with skin. Wash thoroughly after handling. In case of eye contact, flush with water for at least 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.