

RECPATCH 111

TWO-COMPONENT REPAIR MORTAR AND UNDERLAYMENT

DESCRIPTION

RECPATCH 111 is a two-component, polymer-modified, cementitious repair mortar and flowable underlayment. When the two components are combined, RECPATCH 111 becomes a versatile mortar for numerous applications, due to its ability to be mixed at different consistencies. From flowable to firm, RECPATCH 111 provides an aesthetically pleasing surface in multiple applications.

PRIMARY APPLICATIONS

- Resurfacing worn concrete walkways
- Trowel able repair mortar
- Decorative overlays
- Horizontal or vertical repairs
- Pointing mortar joints
- Flowable underlayment

FEATURES/BENEFITS

- Resurfacing worn concrete walkways
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TECHNICAL INFORMATION

Material Properties at 75°F

Initial Set, hrs..... approx. 1.5 to 3
Final Set, hrs..... approx. 4 to 5

Compressive strengths (MPa) ASTM C 109
 7 days. 3,800 (26.2)
 28 days. 5,000 (34.5)

Direct Tensile strength, psi (MPa) ASTM C 1583
 7 days. 525 (3.6)
 28 days. 650 (4.5)

Flexural strength, psi (MPa) ASTM C 348
 7 days..... 600 (4.1)
 28 days..... 900 (6.2)

Bond strength, psi (MPa) ASTM C 882
 7 days..... 950 (6.6)
 28 days..... 1,450 (10.0)

Shrinkage, % ASTM C 157 (3"x3"x11" specimens
 were removed from molds @24 hours)
 28 days. 0.023%

Freeze thaw durability factor, ASTM C 666
 300 cycles. 91.0%

PACKAGING

RECPATCH 111 Part A (powder) is packaged in a 45 lb. (20.4 kg) bag. Part B (liquid) is packaged in a 1-gal (3.7 L) jug. A mixed unit will yield approximately 0.42 ft³ (0.011m³).

SHELF LIFE

1 year in original, unopened packaging

DIRECTIONS FOR USE

Surface Preparation: Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and all other contaminants.

Priming: Clean and prime exposed steel and concrete

Mixing: In a clean container, add 3/4 of liquid (Part B). Using a 1/2" slow speed (400 to 600 rpm) drill and a "Jiffy" mixer, gradually add the powder (Part A) to produce a mortar with a smooth consistency and without lumps. Add remaining liquid to obtain desired consistency. Do not mix longer than 3 minutes. Do not add water. If extending with an aggregate, the use of a mortar mixer is recommended. The aggregate should be added after the powder is added to the liquid. To fill areas deeper than 1" (2.5 cm), RECPATCH 111 should be extended with up to 20 lb (9.1 kg) of clean, 3/8" (0.95 cm) pea gravel. When extended, RECPATCH 111 can be applied in lifts of up to 2.5" (6.3 cm). Use multiple lifts for deeper repairs.

Application: Expansion and control joints must be extended up through RECPATCH 111. Moving cracks will "telegraph" a crack through RECPATCH 111 if they are covered over. Apply RECPATCH 111 with a trowel using sufficient pressure to fill surface holes and voids and to ensure maximum bond to the substrate. A broom, float or steel trowel finish may be applied to the surface. Avoid excessive troweling, as this will weaken the surface. When using as a wearing surface, mix to a stiffer consistency (use less than full container of mixing liquid) and install to a minimum thickness of 3/8" (0.95 cm). Do not featheredge when using as a wearing surface.

Curing: For best results cure with wet burlap, plastic or a water-based curing compound. Take precautions when placing during difficult conditions when the chance for rapid surface drying is evident such as: high winds, high temperatures, or low humidity. Do not use solvent based curing compounds on this product.

PRECAUTIONS/LIMITATIONS

- Store in protected, dry storage at temperatures between 40°F to 90°F (4°C to 3°C).
- Protect from freezing. • Do not apply RECPATCH 111 below 40°F (4°C).
- Do not apply to a frost filled surface.
- Prior to coating RECPATCH 111 with an epoxy or other non-breathable coating, verify that all moisture is out of the product prior to application.
- In all cases, consult the Safety Data Sheet before use.

CLEAN-UP

Clean tools and equipment with water before RECPATCH 111 hardens. Hardened RECPATCH 111 will require mechanical abrasion for removal.

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