

RAPID CURE CONCRETE REPAIR

The logo for Cook Brand, featuring the word "Cook" in a large, white, serif font with a registered trademark symbol, and the word "BRAND" in a smaller, white, sans-serif font below it. The logo is set against a dark blue background that is part of a larger graphic element on the right side of the page.

MANUFACTURER

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DESCRIPTION

RAPID CURE CONCRETE REPAIR is a one part, silica fume and polymer modified, fast setting cement-based repair. Just add clean water.

USES

To patch spalls in concrete floors, repair broken concrete using forms, build ramps, repair loading docks & parking lot pavement. Rapid Cure Regular will patch from 1/8" to 1". Hi-Build will patch from 1/2" to 6". Also for anchoring bolts and railings. Will accept foot traffic in 2 hours.

SURFACE PREPARATION

All concrete surfaces to receive patch must be free of loose particles, dirt, dust, oil, grease, paint, curing compounds, sealers, coatings or anything that will inhibit the patch from coming in contact with raw concrete. These materials must be removed by grinding, chipping, sand blasting, shot blasting or other methods to get to the bare concrete. A good test to see if the area is suitable for patching is to place some water on the substrate, if the water beads up or is not absorbed into the concrete, it is not properly prepared.

APPLICATION

(1) Dampen the surface thoroughly with clean water to a saturated surface dry (SSD) condition. While the surface is damp, fill the desired area with Gel 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, apply in successive lifts.

(2) Patch application: Place clean cool water in mixing pail then add powder and mix with

trowel to reach desired consistency. Mix only enough material that can be placed in 15 minutes. Place material on patch area and smooth with flat trowel or wood float. Let material set a few minutes, then finish with float trowel or brush for desired texture.

(A) FLOOR PATCHING:

(1/8"-1" depth) Mix patch with water to putty like consistency. Approx. 1 pint water to 7# powder. Dampen surface with water leaving no puddles and prime surface with slurry bond coat (see 1). Apply patch with trowel and finish with desired texture. Mix only enough material that can be placed within 15 minutes.

(B) DEEP FLOOR OR PAVEMENT PATCHES:

(THICKER THAN 1") Prime surface as stated above, use Rapid Cure Hi-Build or, add 3/8" pea gravel to Rapid Cure Regular at a rate of 1/2# to 1# of powder. This will prevent excessive shrinkage in the deeper patch.

(C) BROKEN CONCRETE WALLS, DOCKS, STEPS, ETC.:

Build wood form that will contain material until it sets. Mix material to a semi-flowable consistency (1 pint water to 6# powder) and pour into formed area. Extend with coarse sand or pea gravel if thicker than 1". Be sure slurry bond coat is in place and is still wet or tacky before placing material.

LIMITATIONS

Place material in temperatures between 40 F and 100 F. COLD PLACEMENT: warm material, water and patch area and keep above 40 F for 24 hours after placement. Do not allow patch to freeze for 48 hours after placement. HOT PLACEMENT: mix patch with cold water or ice water. Store patch in cool or shaded area before mixing.

CLEAN UP

Clean up is simple and easy with soap and water. Rinse tools before material hardens.

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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.

TECHNICAL DATA

COMPRESSIVE STRENGTH

1 Hour	1750 PSI
3 Hour	3090 PSI
1 Day	4850 PSI
28 Day	8900 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

Linear Coefficient of Thermal

ASTM C-531

Expansion (inch/inch/degrees F)

14 Day	5.0x10.6
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Water Absorption

ASTM 0-642

28 Day	3.5
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Rapid Chloride Permeability

AASHTOT-277

28 Day	950
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Modulus of Elasticity

ASTM C-469

28 Day	2.2x10.6
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Setting Times 77 F

Initial set	7-20min.
Final set	15-30 min.

Cold Temperatures - Set Slower

Hot Temperatures - Set Faster

Coverage: Volume yields 0.45 cubic feet per unit

PACKAGING

Both Regular and Hi-Build Formulas are available in 50# Polylined bag or 50# plastic pail.