

# RAPID CURE CONCRETE REPAIR DAIRY GRADE



## MANUFACTURER

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## DESCRIPTION

RAPID CURE CONCRETE REPAIR is a two part, polymer modified, fast setting cement-based repair. Mix with Acrylic liquid.

## USES

To patch spalls in concrete floors, repair broken concrete using forms, build ramps, repair loading docks & parking lot pavement. Rapid Cure Dairy Grade will patch from 1/8" to 1" in depth.

## 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

Dampen area to be patched with water (DO NOT LEAVE PUDDLES).

(1) Patch application:

Place 1 gallon Acrylic liquid in mixing pail then add powder and mix with drill & paddle mixer 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" depths) Mix patch with Acrylic liquid to proper consistency. Approx. 1 gallon Acrylic to 50# powder. Dampen surface with water leaving no puddles. 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") Prepare & dampen surface as stated above, 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 and pour into formed area. Extend with pea gravel if thicker than 1".

## LIMITATIONS

Do Not allow Acrylic liquid to freeze.

Place material in temperatures between 40° F and 100° F.

COLD PLACEMENT: warm material 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: Store patch and Acrylic liquid in cool or shaded area before mixing.

## CLEAN UP

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

## 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.

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## 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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### Abrasion Resistance Grams lost 1/4" APCI

28 Day	1
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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 or 25 sq. ft. @ 1/4" per unit.

## PACKAGING

50 lbs. powder and 1 gal jug Acrylic liquid packaged in a 5 gal plastic pail.