



## Rapid Cure FD Standard Full Depth Repair

**Description-** RCFDS is a one component rapid hardening portland cement concrete containing coarse aggregate, microsilica, polymers and reinforcing fibers for making full depth repairs of all types of concrete structures.

**Uses-** Full depth repairs on grade and below grade concrete. Minimum thickness of 1 inch to a maximum thickness of 8 inches (thicker applications can be achieved through applying in lifts.) Structural repair for horizontal and form and pour repairs. Excellent for balcony, parking lot, parking deck, pedestals, curbs, equipment bases, re-sloping floors and industrial plant repairs.

### **Benefits-**

- Pre-packaged to eliminate jobsite mixing.
- Contains coarse aggregate, no need to extend in the field.
- Contains a corrosion inhibitor
- Contains micro-silica
- Can accept coating in as little as 6 hours
- Very low porosity for better chemical resistance
- Rapid set time typically mixed at 6" slump

**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. Removal of any anti adherents or loose materials must be accomplished mechanically. Steel reinforcement: Mechanically clean all surfaces to remove rust and corrosion (repair rebar as needed). Ensure enough concrete is removed to produce a 1 inch minimum repair.

**Priming-** In addition to a saturated, surface dry (SSD) substrate, the use of an epoxy or latex primer should be considered.

**Mixing-** Place 1 gallon of water into mixing container, followed by 1 65lb. bag of RC FDS. Mechanically mix water and material to uniform consistency. Adjust water as needed up to 1.25 gal. \*Liquid Additive "A" may be used in lieu of water for a more durable bond. Material may be pumped, poured into forms or used with wet or dry shotcrete method.

**For Best Results-** In cold weather use warm (not hot) water for mixing. Dampen the surface of the work area before applying the new material. For a rough or non-slip surface, use a wooden float or broom. For a smooth finish, use a steel trowel. Avoid over troweling. For proper curing, keep moist for 3 days with an occasional fine spraying with water or cover with wet burlap or plastic. The use of a curing compound conforming to ASTM C-309 will also work; however curing compounds will need to be mechanically removed prior to coating. (Check with the coating manufacturer.) Hot weather: (above 80 degrees) will cause faster setting; mix with cold water or ice to slow setting time.

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**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 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).

Set Time @ 75° F

Initial Set: 30-40 minutes

Final Set: 40-50 minutes

**Packaging-** 65 multi-walled paper bags.  
3000 lb. super sacks.

**Coverage-** approximately 0.5 cu. Ft. per bag

**Technical data-**

Compressive Strength

ASTMC109

- 3 hours- 4330 psi
- 1 day- 6190 psi
- 7 day- 8770 psi
- 28 day- 9560 psi

Length Change

ASTM C157

Air Cured – 28 days 0.015  
Water Cured – 28 days 0.0026

Resistance to Scaling

ASTM C672

25 Cycles 0

Bond Strength

ASTMC882 (modified)

- 1 day- 1765 psi
- 7 day- 2425 psi

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