



DESCRIPTION:

Highway Repair is a rapid-setting, one component Portland cement concrete containing coarse aggregate, polymers and reinforcing fibers for making full depth repairs for horizontal surfaces and form and pour situations on all types of concrete structures. Highway Repair contains a corrosion inhibitor and can receive coatings in as little as 6 hours.

USES:

- For repairs from 1" thick to full depth.
- Repair roadways, highways, warehouse floors, parking lots, balconies, etc.
- Use where rapid return to service is required and/or topical coatings need to be applied without waiting the typical 28 days to apply.

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 to a CSP number of 5 or greater. Steel reinforcement: Mechanically clean all surfaces to remove rust and corrosion (repair and rebar as needed). Ensure enough concrete is removed to produce a 1" minimum repair.

PRIMING:

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

MIXING:

It is recommended that the use of a mechanical mixer, such as a mortar mixer or drill mounted mixer be used. All work should be organized so that all personnel and equipment are in place prior to mixing. Use clean potable water. Place between 3.5-4quarts of water per 65lb. bag of Highway Repair. Mechanically mix water and material to uniform consistency, usually 1-2 minutes. Placement and finishing times should be less than 15 minutes.

Setting times: Initial set: Approx. 15min at 75F. Final Set: Approx. 20min at 75F

For Best Results: Dampen the surface of the work area before applying the new material to a saturated, surface dry (SSD) condition. 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, wet cure according to American Concrete Institute. 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.

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).



TECH DATA

COVERAGE:
0.5 cu. ft. per 65lbs.

PACKAGING:
65lb. multi-walled paper bags.

COMPRESSIVE STRENGTH:	ASTM C-39	3 hours - 6000 psi 7 days - 10,000 psi	24 hours - 8000 psi 28 days - 11,000 psi
	ASTM C-672	25 Cycles Visual Rating = 1	Scaled - 0.006 lbs. Per sq. ft.
SPLITTING TENSILE STRENGTH:	ASTM C-496	24 hours - 640 PSI	
SLANT SHEAR BOND:	ASTM C-882	24 hours - 2200 PSI	7 days - 3000 PSI
SHRINKAGE:	ASTM C-157	28 days	Air Cured: -0.038%
			Moist Cured 0.013%