



PETRA RAPID PATCH

advanced coating systems



HIGH STRENGTH, FAST CURING, TWO COMPONENT POLYMER

GENERAL PRODUCT DESCRIPTION

Petra Rapid Patch is an advanced, high strength, fast curing, two-component polymer, concrete patching system. Formulated to quickly rebuild damaged control joints, spalled concrete and cracks even in low temperatures. Ultra low viscosity allows the material to flow and wick into very small cracks and cavities for a superior bond. Petra Rapid Patch is the product of choice when downtime is costly and quick return to service is critical. Repairs are ready to accept heavy traffic in 10-20 minutes.

Advantages:

- Fast cure (20 minutes at 70°F)
- Self-priming
- Low temperature cure
- VOC Compliant
- Oil and fuel resistant
- Withstands heavy forklift traffic
- Self leveling

APPLICATIONS

- | | |
|--------------------------------|-----------------------------------|
| Rebuilding control joints | Concrete spalls and cracks |
| Rapid repairs prior to coating | Bond cracked slabs |
| Fast repair of cold room floor | Resistant to most petro-chemicals |
| Grade matching | |

PRODUCT DATA

Volumetric Ratio:	1 to 1
Solids:	100%
Hardness, ASTM D 2240	Shore D 70
Mixed Viscosity @ 75°F	20 cps
Application Temperature:	28-75°F and 5° above the dew point
Thinning:	Not required
Pot Life:	1-3 minutes
Cure Time:	15-20 minutes (traffic)
Shelf life:	12 months
Color:	Gray

PACKAGING

Petra Rapid Patch is available in two different kit sizes:

	Part A	Part B
2 Gallon Kit	1 gal.	1 gal.
10 Gallon Kit	5 gal.	5 gal.

MIXING

The mix ratio of Petra Rapid Patch is 1 to 1. Pre-mix part A until uniform. Mix only the volume of material that can be applied within 1-2 minutes. Mix equal parts of A and B with a drill and jiffy mixer for 30 seconds and apply immediately. The product's ultra low viscosity helps insure easy mixing. If mixing with sand as a mortar/slurry, mix A and B first and then mix with sand for another 30 seconds and immediately apply to repair. Aggregate may also be pre-placed in the repair area and mixed resin added to completely saturate it. Broadcast additional aggregate as needed.

SURFACE PREPARATION/ APPLICATION PROCESS

Before the coating is applied, the concrete must be:

- Clean-- Contaminants removed
- Profiled-- Surface etched
- Sound--Cracks repaired

Mechanical preparation is the preferred method of preparing concrete for coating application. Shot-blasting, diamond grinding, scarifying, and scabbling are all acceptable methods. The concrete profile should be approximately 40-60 grit sandpaper after preparation. All repair surfaces need to be clean and dry. Any standing water will react with Rapid Patch and cause bubbling and a weak, unsightly repair.

SMALL CRACKS: Open the top of the crack with a crack chaser (4-5" angle grinder with a v-shaped diamond blade). Vacuum out any debris and loose concrete. Mix a small volume of product and fill a squeeze bottle with a pointed nozzle to neatly apply the material into the crack. Refill as needed until crack is filled flush with the surface. If you over fill the crack you can use a sharp blade scraper to "shave" off the overfilled material just after it gels. If you wait too long to shave, the excess material will become hard and need to be ground off.

LARGER CRACKS: Grind both sides of the crack and remove any loose, unsound material. Larger cracks may go all the way through the slab and allow material to run under the slab. If this is the case you may want to pre-fill the bottom of the crack with clean dry sand. The first application of Rapid Patch should now bind the sand and seal the bottom of the crack. A second application may be required to fill the crack. Adding liquid Rapid Patch to the crack and then sprinkling in sand to fill the void works well. You may slightly over fill the crack and grind it flush when cured, to produce a perfectly flush/smooth patch.

DIVOTS AND LARGER HOLES: Remove all loose and unsound material, grind all surfaces to remove contaminants for best bond. Vacuum out all dust and debris. Mix up and pour enough Rapid Patch to fill approximately one third of the void. Immediately start adding clean dry sand or pea gravel to the liquid. The larger the void the larger the aggregate you can use. Completely saturate all of the aggregate. It is better to have more resin than not enough. If you must add another layer after the first one cures, be sure to add enough aggregate to produce a very rough surface for proper bonding. Fill the void with Rapid Patch resin and aggregate to the top or a little above the surface. Sprinkle sand on top for a non-slip surface or grind the overfilled patch flush for a perfectly flush/smooth patch.

CLEANUP

Petra Rapid Patch while in a liquid state may be cleaned up with water and degreaser. Otherwise a strong solvent may be required while Petra Rapid Patch is setting up.

WARRANTY

Petra Polymers products are warranted for one year after date of application. Please refer to the Petra Polymer's Limited Material Warranty for additional clarification.

SAFETY

Consult Petra Rapid Patch material safety data sheet. Avoid Petra Rapid Patch contact with skin. Some individuals may be allergic to the product.