

PATCH 500 TECHNICAL DATA

PREVIOUSLY NAMED SSP-500

Fast Concrete Repair Polymer
100% Solid, No Odor, Standard Gray

PRODUCT DESCRIPTION

PATCH 500 is quick reacting formulated ultra-low viscosity polymers for high strength/tough concrete repair. The low viscosity polymer is quickly absorbed (Self-Priming) into the concrete, creating an interlocking bond and a **high strength, tough, long lasting rapid repair.**

PRODUCT USES

PATCH 500 can be used neat or mixed with selected aggregates for large and small crack, spalls, pop-outs, bolt holes and for joint edge reconstruction. Repair can be made in minus temperature.

APPLICATIONS

- ❖ REBUILDING FLOOR JOINTS EDGE
- ❖ SHALLOW & DEEP SPALLS
- ❖ POP-OUTS/BOLT HOLES
- ❖ FINE AND SHRINKAGE CRACKS
- ❖ GRADE MATCHING
- ❖ FREEZER REPAIR
- ❖ SMALL & LARGE CRACKS
- ❖ REBOUNDING
- ❖ DELAMINATED FLOORS

ADVANTAGES

VERY HIGH IMPACT RESISTANCE
 WITH STAND HEAVY FLOOR GRINDING
 APPLIED IN MINUS TEMPERATURES
 NON-BRITTLE, NOT LIKE EPOXY
 CAN BE FEATHEREDGED
 SAVES MAN HOURS, SAVES DOWN-TIME
 HIGHLY FUEL & CHEMICAL RESISTANCE
 LONG TERM DURABILITY
 MEETS USDA REQUIREMENTS
 PROVIDES SMOOTH WORKING SURFACE FOR FORK LIFTS

APPLICATION

Spalls, Cracks & Joint Repair Mortar

2 parts liquid (1 A & 1 B) can be added to 2 to 4 parts sand. The amount of sand depends on the grit size (Fine less / Coarse more). For deep repair, up to 2 parts pea gravel can be added. When making a mortar, keep it fluid and wet (not dry/stiff) so it is self-priming. You can always sprinkle sand over the repair if it puddles.

GENERAL PHYSICAL CHARACTERISTICS

Solids	100%	Mix Ratio	1:1
Shelf Life	1 year	Elongation ASTM D124	7%
Hardness ASTM D2240	Shore D 70	Viscosity	<10
Compressive w/ aggregate	5000+ PSI	Temperature Range	-30 F to 120 F
Tensile ASTM D412	4480, filled	VOC mixed	0.0 g/l
Bond ASTM 882-99	1900 PSI		

PREPARATION

ALL SURFACES MUST BE CLEAN AND DRY. Cracks, damaged joints and spalls should be free of dirt, oils, dust, latent and loose materials. Square cutting of the repair area is optional.

POP-OUTS/BOLT HOLE/SMALL SPALLS

2 parts liquid (1 A & 1 B) neat or with approx. 2 parts fines

BASIC MIXING TOOLS

1. Several medium size mixing bucket
2. Several measuring cups
3. Margin trowel

EXTRA MATERIALS

1. Several grit sizes of sand & aggregate
2. Squeeze bottles (available from SSP)

MIXING Important: Start with small batches

Repair Mortar

1. Place 2 parts sand/aggregate into mixing pail. Holdback 1 to 2 parts to adjust batch once liquid is in.
2. Measure 1 part A and 1 part B separately.
3. Pour B first into bucket with sand, mix a little, then add A.
4. Mix with margin trowel; add more sand if needed.
5. Mix quickly to wet all the sand for approx. 1 minute
6. Place in repair.

Concrete Repair Polymer

Pop-outs, Bolt Holes, Micro Spalling

1. Measure out 1 part A and 1 part B separately. If neat, go to step 4
2. If using fine aggregates, place about 2 parts into mixing pail. (Adjust grout as needed.)
3. Pour B first, mix with fines, then add A into mixing pail. Mix with margin trowel for about 30 than place.
4. Pour part B into squeeze bottle than part A. Shake bottle for approx. 30 seconds than place.

RECOMMENDATIONS

1. Be sure aggregate is dry. Moisture will cause repair to swell or bubble.
2. For deep repairs fill in layers. Sprinkle sand to refusal over mortar between layers so surface inside the repair is not wet. Once reacted and hard, continue with the repair.
3. Allow to cure for about 30 minutes before grinding/polishing surface.

COVERAGE

Patch Repair Mortar: 1 gallon of liquid & 2 gallons of aggregate make approx. 508 in.³ of Mortar.
1 gallon of liquid and 3 gallons of sand make approx. 640 in.³ of Mortar. Adding pea gravel will increase yield.

TECHNICAL SERVICES

Contact for questions on mixing, applications, & estimating

PACKAGING

PATCH 500 is available in 1 Gal. Kit, 2 Gal. Kit, and 10 Gal. Kit. Cartridges are available per request.

SAFETY

This product is for professional applicators only. Wear protective clothing. Read SDS before using this product. DOT/Flash Point: Non-flammable. Liquid not regulated.

WARRANTY

Solid Solution Products, Inc. will refund the price of or replace, at its election, product it finds to be defective provided the product has been used properly. Except as expressly stated above, the company makes no warranty of merchantability and no warranty of fitness for any particular purpose, nor does it make any warranty, expressed or implied, of any nature whatsoever with respect to the product or its use. In no event shall the company be liable for delay caused by defects, for loss of use, for indirect, special or consequential damages, or for any charges or expenses of any nature incurred without its written consent.