New Generation Epoxy Patch & Repair Kit

heavy duty patch & repair system

Convenient, ready-to-mix, easy-to-use, 2-part epoxy system with pre-measured hardener. Produces a 100% solids, solvent-free, water-free, SHRINK-FREE high bonding mortar designed for floor applications where extreme strength, bonding and wear characteristics are required.
EASY TO USE
New Generation Epoxy Patch & Repair kit mix is pourable, yet sets rock hard. It can be pumped or injected, for example, with a caulking gun into inaccessible areas. New Generation Epoxy Patch & Repair can be placed directly onto repair area without sealer or bonding agent. It can be topcoated with New Generation 100 immediately after being placed. Recoat with Straight Seal, New Generation 40 and New Generation 50 when patch is cool to the touch and firm enough to withstand application or roller pressure without deforming the patch.

EXCELLENT BONDING...
ABrasion RESISTANCE
Excellent impact and abrasion resistance — much higher than concrete. New Generation Epoxy Patch & Repair compound has more tensile strength than concrete and will not pull away from concrete. Common patching materials contain water or solvent. When the solvent or water evaporates, patch dries causing shrinkage and decreasing the adhesive strength. Also, the water-filled spaces in a patch matrix make the patch porous and sensitive to freeze/thaw. New Generation Epoxy Patch & Repair is 100% solids. No evaporation. No shrinkage. No porosity — no weakening or cracking due to freezing.

NON-CONDUCTIVE
New Generation Epoxy Patch & Repair is non-conductive. This eliminates reinforcing rod (rebar) corrosion, anchor bolt and fastener corrosion common in ordinary concrete. Since there is no metal aggregate in the product, the patch will not rust or stain.

New Generation Epoxy Patch & Repairs is versatile and has many uses...keep several pails on hand for emergency repairs.

DIRECTIONS FOR USE
Read and understand entire label before using this product.

PREPARE AREA:
1. Remove loose, crumbling concrete, oil, grease, wax, curing membranes and seals. Clean and degrease with Spartan SC-200. Rinse well.

2. Following directions, prep area with Spartan Concrete Prep, shot-blast, sand-blast or otherwise mechanically roughen area to expose sound concrete. Scour newly drilled anchor bolt holes with coarse wire flue brush. Insure that surface of area is completely dry. Gas burners or electric power dryers can be used to quickly dry deep holes and cracks.

PATCH AND REPAIR
1. Put on gloves and eye protection before opening. Cut slots to open pail. Set up a mixing station. Lay out cardboard or drop cloth on floor. Unmixed Parts, A or B, spilled on floor will never harden and will require clean-up with Xylene (xylol). Combined mix spilled on floor and allowed to cure will require removal with hammer and chisel.

2. Mix Part A (gallon pail) until all aggregate is completely wetted. Scrape side and bottom often to insure a complete mix. Mix by hand with a stiff paddle or bar, or mechanically with a plaster mixer or other high-torque, low speed equipment. AVOID MIXING IN AIR.

3. Add entire contents of Part B (Curing Agent) to part A (Epoxy Mortar in gallon pail). Mix completely using fold and stir method. Again, scrape sides and bottom often to insure a complete mix. Transfer contents to clean dry pail to check for complete mixing. Incomplete mixing will result in soft spots and repair failure!

4. When thoroughly mixed, immediately apply material to prepared area. Cure time will vary depending on application. Quart size repair will harden in one hour. Smaller, thinner repairs require longer cure time. Combined components, if left in pail, will harden within 30 minutes. Recommended application temperature is 45-90°F. The warmer the temperature, the faster the set-up. Clean-up will require a solvent such as Xylene. Repair may be sanded, sealed or painted when firm. Screen or abrade if recoating after 48 hours.

MINIMUM PATCH THICKNESS: ¼”
MAXIMUM PATCH THICKNESS: 12”

WHERE TO USE
• Use indoors or outdoors.
• Use to repair surface defects: holes, cracks, spalls, voids.
• Use to install anchor bolts, posts, poles, base plates.
• Use as a grouting for all types of ceramic, non-resilient tile and flatwork.
• Use to bond new concrete to old concrete by placing concrete overlay onto the patch & Repair material (or New Generation 100) before the epoxy gels.
• Use to skid-proof loading ramps.
• Use to bond old concrete to old concrete or other material to concrete. Use to “weld” cracked concrete.
• Use to reinforce and protect uneven slab edges from heavy forklift and vehicular damage.
• Use to lower repair costs by adding additional aggregate such as sand, alumina, pea gravel, poly-beads. (Using additional aggregate will reduce bonding strength.)
• Use to make your patch inconspicuous by pressing in aggregate particles that match the surrounding concrete. Add 1 to 5 percent plain cement to darken and further blend color of patch to surrounding concrete.
• Use for vertical surface repairs by adding 3 to 10 percent silica flour or fumed silica to create thicker, non-sagging mortars. Vertical repairs with unthickened mix will require form-work.
• Hundreds of other patch and repair uses! A few examples: install playground and park equipment, seats, gates, partitions, screws, dowels, loose tiles, hand rails, electric machinery. Many municipal uses: install parking meters, repair sidewalks, stairs, speed bumps, parking garages, aprons, etc.

…HUNDREDS OF OTHER PATCH AND REPAIR USES! A
TIPS AND PRECAUTIONS

- Remove concrete that has been exposed to oils, greases, fats, etc.
- Use after shot blasting, etching and final surface preparation.
- Area must be completely dry. Use propane weed burner to quickly dry cracks and holes. Use dry vacuum to remove remaining particles from patch surface.
- Maximum patch thickness: 12". Patches over 12" deep may get very hot (over 150°F) during cure. Use multi-step applications for patches over 12" deep. Protect deep patches from direct sunlight while curing.
- The proper combining ratios of Parts A and B is important. Unmixed parts will not harden. Mix thoroughly. Transfer mix to second container to check for unmixed spots.
- When properly applied and depending on size and shape of patch, a glaze coat will develop at surface. If required, this can be topcoated immediately with New Generation 100; recoat with other products when patch is cool to touch and firm enough to withstand pressure from coating application without deforming. If topcoating after 24 hours, abrade with 100 grit sandpaper.
- Not suitable for immersion service in concentrated acids, commercial solvents, strong oxidizers. Not recommended for use over 250°F.

DO NOT FILL EXPANSION OR ISOLATION JOINTS. CONSULT BUILDING ARCHITECT BEFORE REPAIRING LARGE DYNAMIC CRACKS. NOT RECOMMENDED FOR IMMERSION SERVICE IN COMMERCIAL SOLVENTS.

SPECIFICATION DATA

Non-Volatile Solids - 100%
VOC - 0 g/L

Stability
a. Unopened container @ 24°C/75°F - One Year
b. Freeze/Thaw - Freezes and thaws 3 times

Pot Life After Mixing @ 75°F - 30 minutes (less at higher temperatures)

Clean-up Solvent
Before cures - Xylene, Xylol
After cures - Paint or Varnish Remover

COVERAGE
One kit will yield 80 fluid ounces (144 cubic inches) of patching material. This would, for example, fill 96 linear feet of a “ x 1” crack or cut.

Be sure to read all Directions, Precautionary and First Aid Statements on product labels before use of this or any Spartan product. If questions remain, consult your employer or a physician. Material Safety Data Sheets for all Spartan products are available from your authorized Spartan distributor or by visiting www.spartanchemical.com.

DRY TIME@75°F

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Tack Free Time</th>
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<tbody>
<tr>
<td>½” deep patch</td>
<td>1-2 hours</td>
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<tr>
<td>2” deep patch</td>
<td>3-4 hours</td>
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<tr>
<td>6” deep patch</td>
<td>4-5 hours</td>
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Heavy Traffic and/or Chemical Resistance 48 hours

¹Depends on surface temperature and shape and depth of patch.

80 fl. oz. (144 in.³), Parts A and B

PACKAGING

Label copy is provided in English. Secondary labels are also available.

GUARANTEE: Spartan's modern manufacturing and laboratory control insure uniform quality. If dissatisfied with performance of product, any unused portion may be returned for credit within one year of the date of manufacture. Use product as directed and read all precautionary statements.