

Delpatch™ Elastomeric Concrete

Installation Instructions

Unit Makeup

Each unit consists of twelve (12) bags of sand and fiberglass, two (2) 5-gallon pails of Part A (clear), and one (1) 5-gallon pail of Part B (black). Also included with each unit is 1/6 gallon of primer. Each sand/fiberglass box weighs approximately 280 lbs. Total unit weight is approximately 425 lbs. Each unit yields approximately 27.7 mixed gallons and fills a void of approximately 3.7 cubic feet. (Part A and Part B materials are also available in drums.)

Miscellaneous

- A. Parts A and B may be stored outdoors, but must be protected from freezing weather. The aggregate must be protected from the elements: either store indoors or, if outdoors, off the ground and covered with a waterproof tarp.

Equipment

The D.S. Brown Company recommends the following equipment:

- A. 3/4" heavy duty, slow speed, high torque drill or 3/4" hp mixer with mixing with mixing paddle. D.S. Brown recommends the [Eibenstock Model EHR 18.1 S Mixer](#) or equivalent.
- B. 5-gallon buckets, mixing bowls/pails (2)
- C. Plastic measuring beakers (min. capacity 5000 ml)
- D. Notched trowels for finishing, and scrapers (margin or brick trowels) for mixing bowls or pails
- E. Personal protective equipment (safety glasses, gloves, safety vests, etc.). See SDS.
- F. Spray bottle for applying primer
- G. Funnel for filling spray bottle with primer

The Blockout

- A. Repair area must be clean and dry.
- B. Minimum application depth is two inches.
- C. We recommend that the entire application area be sandblasted, including one inch outside the repair area. Secondary blasting may be needed if contamination, dampness, etc. occurs.
- D. Blow area (including a wide portion of roadway surface area) with high pressure air which is free of oil and moisture.
- E. It is good practice not to get too far ahead with sandblasting and air blowing or they may need to be repeated.

Priming Concrete

- A. Primer is applied with either a hand pump sprayer or a pump-up spray tank.
- B. The primer may also be applied by brushing.
- C. Use clean brushes at all times.
- D. Use smaller "working" can large enough to hold sufficient primer to coat the blockout.
- E. Fresh primer must always be used.
- F. Avoid making puddles as this increases drying time.
- G. It is good practice not to return excess primer to the main one-gallon can.
- H. Primer must dry out at least 30 minutes and no longer than 4 hours before placement of Delpatch™.

Mixing

- A. There are 12 batches of approximately 2.31 gallons in each unit.
- B. Pour 3000 ml Part A and 1500 ml Part B into separate beakers (use level line).
- C. Add Part A and Part B to mixing bowl. Start mixer at low speed.

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- D. Immediately begin to add sand/fiberglass mixture at a gradual rate (approximately 10 seconds).
- E. Increase mixer speed to medium. Mix for 1 minute. An even gray color indicates a consistent mix.
- F. Take material to blockout.

Placement & Finishing

- A. Delpatch™ is initially self-leveling, but rapidly becomes thicker. Be sure to have an area ready for placement prior to mixing.
- B. Delpatch™ must be poured into the blockout in a manner that reduces the potential for delamination. In other words, fill a particular grade on an “as-you-go” basis (including final troweling) rather than emptying the bowl over the entire length of the blockout.
- C. Start at the low end of the repair area. Delpatch™ will flow for several minutes; use trowel to push excess “uphill.” After Delpatch™ has taken its initial set, use notched trowel to finish to final grade. Avoid “smearing” the excess outside the repair area.
- D. Never leave a partially filled blockout at lunch breaks, etc.
- E. Total working time with Delpatch™ from adding Parts A and B to initial set is approximately five to ten minutes, depending on temperature.
- F. It is good practice to use a notched trowel that is long enough to span the repair area.
- G. If edges are masked with duct tape, remove tape immediately after final trowel.

Special Comments

- A. On hot, sunny days keep kits under cover or in the shade.
- B. Open pails only as needed. To ensure future quality of Delpatch™ parts A and B, tightly close partial containers for reuse.
- C. Use empty aggregate boxes under measuring and mixing operations to catch drips and spills.

Accepting Traffic

Delpatch™ Elastomeric Concrete can accept traffic in as little as one hour after the final pour when installed in normal working temperatures.

Cleanup

- A. Paddles should be scraped between mixes to reduce buildup.
- B. Residue in Part A beaker will set up and can be stripped out.
- C. Residue in Part B beakers can be drained into an empty Part B can.
- D. Paddles, tools, scrapers, trowels, etc. can be immersed in denatured alcohol or solvent and cleaned later.

Restrictions

- A. Delpatch™ must not be installed when air and concrete temperatures are colder than 45°F.
- B. Delpatch™ should not be poured in the rain, however slight.