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INSTRUCTIONS FOR DELPATCH[®] ELASTOMERIC CONCRETE

Unit Makeup

Each unit consists of twelve (12) bags of sand and fiberglass, two (2) five-gallon pails of Part A (clear), and one (1) five-gallon pail of Part B (black). Also included with each unit is 1/6 gallon of primer. Each sand/fiberglass box weighs approximately 400 lbs. Total unit weight is 550 lbs. Part A and Part B materials are also available in drums.

Each unit yields approximately 27.7 mixed gallons and fills a void of approximately 3.7 cubic feet.

Miscellaneous

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

Equipment

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

- Drill Mixer, Hobart mixer or pail mixer
- 5 gallon buckets, mixing bowls/pails (2)
- Plastic measuring beakers (min. capacity 5000 ml)
- Notched trowels for finishing, and scrapers (margin or brick trowels) for mixing bowls or pails
- Personal protective equipment (safety glasses, gloves, safety vests, etc. (see MSDS))
- Spray bottle for applying primer
- Funnel for filling spray bottle with primer

The Blockout

- Minimum application depth is one inch.
- 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. occur.
- Blow area (including a wide portion of roadway surface area) with high pressure air which is free of oil and moisture.
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- It is good practice not to get too far ahead with sandblasting and air blowing or else they may need to be repeated.

Priming Concrete

- Primer is applied with either a hand pump sprayer or a pump-up spray tank.
- The primer may also be applied by brushing.
 - Use clean brushes at all times.
 - Use smaller “working” can large enough to hold sufficient primer to coat the blockout.
- Fresh primer must always be used.
- Avoid making puddles as this increases drying time.
- It is good practice not to return excess primer to the main one gallon can.
- Primer must cure 30 minutes prior to placement of DelPatch™.
- Primer must be re-applied after six hours or if a drenching rain occurs.

Mixing

- There are (12) batches of approximately (2.31) gallons in each batch.
- Pour 3000 ml Part A and 1500 ml Part B into separate beakers (use level line).
- Add Part A and Part B to mixing bowl. Start mixer at low speed.
- Immediately begin to add sand/fiberglass mixture at a gradual rate (approximately 10 seconds).
- Increase mixer speed to medium. Mix for 45 to 75 seconds. An even gray color indicates a consistent mix.
- Take material to blockout.

Placement and Finishing

- DelPatch™ is initially self leveling, but rapidly becomes thicker. Be sure to have an area ready for placement prior to mixing.
- 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.
- 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.
- Never leave a partially filled blockout at lunch breaks, etc.
- Total working time with DelPatch™ from adding Parts A & B to initial set is approximately five to ten minutes, depending on temperature.
- It is good practice to use a notched trowel that is long enough to span the repair area.
- If edges are masked with duct tape, remove immediately after final trowel.

Special Comments

- On hot, sunny days keep kits under cover or in the shade.
- Open pails only as needed. To ensure future quality of DelPatch™ parts A & B, tightly close partial containers for reuse.

Use empty aggregate boxes under measuring and mixing operations to catch drips and spills.

Accepting Traffic

Traffic can usually be accepted within one hour after the final pour.

Clean-Up

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

RESTRICTIONS

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