

ROAD PATCH

3G

A FAST-SETTING, CEMENT-BASED HIGHWAY PATCHING COMPOUND & OVERLAYMENT MATERIAL READY FOR TRAFFIC USE IN 60 MINUTES

ROAD PATCH is a fast-setting, Portland cement-based, highway patching and overlayment material. Road Patch may be used to restore all types of concrete substrates which require a minimum build-up of 2". Road Patch is able to support normal traffic only 60 minutes after set.

USE TO REPAIR

- Highways.
- Roads.
- Bridges.
- Parking garages, decks, ramps.
- Warehouse floors.
- Storage and shipping areas.
- Any concrete patch that requires a minimum build-up of 2".

ADVANTAGES

- Sets within 30 minutes.
- High compressive strength.
- Expands as it sets.
- Resists water erosion.
- Excellent freeze-thaw resistance.

SURFACE PREPARATION

Concrete to be repaired must be sound and clean. Remove all dirt, dust, spalling or loose concrete, oil, grease, wax, mildew, efflorescence, curing compounds, form release agents, paint or any other foreign material which might effect the bond. **SEE WARNING ON BACK PAGE REGARDING PAINT REMOVAL.** A dry removal method such as a sand or shot blasting procedure will ensure a proper surface preparation. Wet cleaning may also be used. If the size of the job does not justify the costs of such equipment, all preparations may be accomplished manually. All oil and

grease must be scrubbed with a de-greasing compound, rinsed thoroughly then allowed to dry. After cleaning oil or grease spots, sprinkle a little water on the cleaned surface to check for residual contamination. Oil or grease is still present if the water forms small globules. If the water is quickly absorbed, the surface is clean.

Saw cut the perimeter of the area being repaired to a minimum depth of 2". If possible, undercut the adjoining slab for a more secure bond of the Road Patch. Using water, under moderate pressure, flush and further clean the area. **During the application, the area to be patch should be saturated but free from any standing water.**

Avoid bonding Road Patch to any adjacent slab. Maintain the integrity of any abutting joints by using expansive joint material, bond breakers, polyethylene or isolation joint materials. If any reinforcing steel has rusted or is not bonded to the concrete, remove the concrete to a depth of 3/8" below the steel. Any rusted metal or rebar within the area being repaired must be sand-blasted or wire brushed making sure all rust is removed. Coat all clean wire with a slurry coat of Road Patch and Umaco Add Mix-21.

Always perform a spot test (of sufficient size) prior to application in order to ensure compatibility between Road Patch and the substrate as well as to confirm that the appearance and performance are acceptable.

MIXING

Using a clean container or mixer, add approximately 3 quarts of water. Slowly add a 50 pound bag of Road Patch while mixing until lump free for 2-5

minutes. When mixing larger batches, a ribbon type plaster mixer with rubber wipers or a standard drum type concrete mixer are recommended. For smaller batches, a hand drill with a paint paddle can be used. Be certain that all mixing equipment and tools are clean before using. **Only mix as much material as can be placed and finished in 15 minutes.**

Dump batch and immediately deliver the mix to the prepared pavement area. Clean mixer by adding water and allowing mixer to run. Dump cleaning water before starting another batch. **As with any Portland cement-based material, mixing liquid should be kept to a minimum to avoid decreasing strength and adhesive properties.**

APPLICATION

Place and trowel the material to the desired thickness making sure all voids are filled. Work from one side only, not toward the middle from opposite directions. Level and screed the material to the proper height then before set, broom finish if necessary. If a smooth finish is desired, trowel lightly before set.

CURING

Under normal conditions, Road Patch is self curing, however, under hot, windy conditions, a curing membrane may be required to prevent surface dry out. Allow material to develop strength for at least 60 minutes after set before allowing traffic to resume over patched area.

COVERAGE

A 50 pound bag of Road Patch will yield approximately .39 cubic foot.



60 REAR NEWHALL STREET

PHONE: 978-453-8881

LOWELL, MA. 01852

FAX: 978-453-2416

CONTROL JOINTS

All existing control joints in the base slab must be reproduced in the area being repaired. Joints must be full depth and be as wide or slightly wider than the existing control joints. Joints may be hand tooled or saw cut.

SPECIAL PRECAUTIONS

- Use above grade only.
- Road Patch is not recommended for structural repairs.
- Do not apply to frozen surfaces or if the temperature will fall below 40 degrees F within 24 hours.
- Do not add accelerators, water reducers or antifreeze to this product.
- Do not use for patches less than 2" thick.
- Store material in dry location.

TEST DATA

Compressive Strength (ASTM C928)

	<u>40 DF</u>	<u>75 DF</u>	<u>95 DF</u>
1 hour	-	2000 psi	-
3 hours	2700 psi	3500 psi	5300 psi
1 day	4800 psi	5000 psi	6500 psi
7 day	6300 psi	6500 psi	7500 psi
28 days	7300 psi	7500 psi	8900 psi

Flow (CRD C227) at 5 minutes after adding water.

40 degrees F.....	145+%
95 degrees F.....	145+%

Average Scaling Resistance (ASTM C672-91)

40 degrees F.....	Pass
95 degrees F.....	Pass

Freeze/thaw resistance after 300 cycles (ASTM C672-91)

0.3% loss due to scaling. No spalling.

Set time (CRD C614) at 75 degrees F.

Initial.....	15 minutes
Final.....	20 minutes

Shear Bond Strength (ASTM C882)

1 day.....	1956 psi
7 day.....	2550 psi

WARNING!

Do not take internally. Contains Portland cement and Silica sand. May be irritating to the eyes and nose. Prolonged inhalation may cause lung injury. Avoid eye contact or prolonged contact with skin. Wash hands thoroughly with water after handling. In case of eye contact, flush with plenty of water for at least fifteen minutes. If irritation persists, consult a physician immediately. Dust masks, eye protection and gloves are recommended when using this product. Read Material Safety Data Sheet (MSDS) before using this product which may be obtained from your retailer or by calling 978-453-8881.

24 Hour Emergency Medical/Spill Information (Chemtrec): 800-424-9300

KEEP OUT OF THE REACH OF CHILDREN!

WARNING! If you scrape, sand or remove old paint, you may release lead dust or fumes. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST OR FUMES CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.**

Before you start, find out how to protect yourself and your family by contacting the USEPA National Lead Information Hotline at 1-800-424-LEAD or log onto www.epa.gov/lead. Wear a properly fitted respirator and prevent skin contact to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Follow these instructions to control exposure to other hazardous substances that may be released during surface preparation.

For technical assistance call
978-453-8881

www.umaco.com

LIMITED WARRANTY

The manufacturer guarantees its products to be free of defects and the extent of its liability is limited to the purchase price of the materials only, if proved to be defective.

Improper mixing, incorrect application or other factors beyond the control of the manufacturer or its dealers may produce unsatisfactory results and cannot be held to be the manufacturers or its dealers responsibility. There are no other guarantees either expressed or implied.

03-01-05

- Concrete Patching and Repair Products
- Masonry Waterproofing Products
- Acrylic Admixtures and Bonding Agents



www.umaco.com

- Decorative Masonry and Concrete Coatings
- Traditional and Synthetic Stucco Systems
- Flooring Underlayments and Resurfacers