

# ROAD PATCH

## 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, concrete patching material which sets strong enough to support normal traffic in just one hour after set. Road Patch expands as it sets, which not only minimizes shrinkage cracks but provides a tight seal with the existing pavement, thus preventing seepage to underlying structures.

### **USES and ADVANTAGES**

- Repairs highways, roads, bridges, parking garages, decks, ramps, warehouse floors, shipping areas.
- Use for any concrete patch that requires a minimum build up of one inch.
- 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 degreasing 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 two inches. Remove all debris within the cut area. 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 sandblasted 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 2-2/3 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 that can be placed and finished in 15 minutes.**

After mixing, immediately place the mixed material to the prepared surface area. Clean mixer by adding water and allowing mixer to run then dispose of 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 if desired, broom finish before set. 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 0.39 cubic foot.



60 REAR NEWHALL STREET

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## **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.
- Provide at least a two inch vertical cut at the perimeter of the prepared surface.
- Do not trowel Road Patch to a thin or feather edge.
- Surface and ambient temperatures must be at least 50 degrees F during application and must remain so until set has taken place.
- Do not allow Road Patch to freeze before set has taken place.
- Do not add accelerators, water reducers or antifreeze to this product.
- Store material in dry location.

## **TEST DATA**

Set Time.....	20-30 minutes
Wet Density.....	145 pcf
Setting Expansion.....	0.05%
Net Expansion After Drying.....	0.01%
<u>Wet Compressive Strength</u>	
1 Hour.....	1,600 psi
3 Hours.....	2,600 psi
1 Day.....	4,300 psi
7 Days.....	7,000 psi
Freeze-Thaw Resistance.....	Good

## **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](http://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](http://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.*

**03-01-08**

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



- Decorative Masonry and Concrete Coatings
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