

# U-PATCH



**U-PATCH** is a fast setting, non shrink, cement based, patching material specially designed for repairing all types of masonry and concrete without the use of expensive form work.

**U-PATCH** may be applied up to 1" thick. Patches over 1" may be built up in successive layers.

- Use to patch & repair sills, steps, headers, lintels, architectural details, etc.
- Fast controlled initial set (6-10 minutes)
- Will not slump when properly mixed
- Reduces labor cost by eliminating form work
- High structural strength
- Withstands repeated freeze thaw cycles
- Does not contain waxes, metallics or calcium chloride
- Sulfate resistant

Repair Mortar	Apply by trowel from 1/8" up to 1"
Packaging	50 lb bag (49/pallet)
Coverage per 50 lb bag	1/4" = 25 ft <sup>2</sup> 1/2" = 13 ft <sup>2</sup>
Application Temperature	Ambient & surface temperature must be 40°F or above and will not fall below that for 48 hours
Mixing	Add just enough water to form a mortar like material
Working Time	5-10 minutes at 70°F
Set Time	10-20 minutes at 70°F
Color	Gray



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[www.umaco.com](http://www.umaco.com)

**U-PATCH** is a fast-setting, non-shrink, cement-based patching material specially designed for repairing all types of masonry and concrete without the use of expensive form work. U-Patch may be used for interior or exterior, vertical and horizontal applications above or below grade.

### **USES and ADVANTAGES**

- Sets in approximately 6-10 minutes
- Will not slump
- Reduces labor cost by eliminating form work
- Repairs steps, headers, sills, lintels, architectural details, bridges, underpasses, dams, reservoirs, cracks, sidewalks, etc.
- High structural strength
- Withstands repeated freeze thaw cycles
- Does not contain waxes, metallics or calcium chloride
- Sulfate resistant

### **SURFACE PREPARATION** **Concrete and Masonry Surfaces**

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. Efflorescence must be washed with a mild solution of muriatic acid and water, rinsed thoroughly then allowed to dry.

Rusted or corroded steel rods or metal must be cleaned by wire brush or sand blasted making sure all rust is removed. Then apply a slurry coat of U-Patch and Add Mix-21 by brush to all cleaned and rust free steel. Square cut the edges of the patch to a minimum depth of 1/4". Dampen the area to be repaired leaving no standing water. For a maximum bond, prime the area to be repaired with Bond All Exterior.

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

### **MIXING**

Using a clean container, add enough clean water to the U-Patch to form a mortar like material. Do not mix more material than can be applied within five minutes. **To increase adhesion, flexural and compressive strengths use Umaco Add Mix-21 in place of water when mixing. One gallon of Add Mix-21 is sufficient to mix a 50 lb bag of U- Patch.** Do not retemper since that will cause the set and the structural integrity to fail.

**As with any Portland cement-based material, mixing liquid should be kept to a minimum to avoid decreasing strength and adhesive properties.**

### **APPLICATION**

#### **Trowel Coat**

Apply by trowel, completely filling in all voids. Apply in layers of 1/2" to 1" thick, scratching the surface of each layer. Allow approximately 10 minutes between layers. Level, form, screed or float the final coat immediately.

#### **Deep Horizontal Patches**

For horizontal repairs deeper than 1", apply a slurry coat of U-Patch and Add Mix-21 to the entire area being repaired. U-Patch may be extended with up to 25 lb. of washed 3/8" peastone per 50 lb. of U-Patch. Mix Add Mix-21

with U-Patch and peastone to obtain a tight mortar like consistency. Apply by trowel completely filling in all voids. Level, form, screed or float the final coat immediately.

### **CURING**

Dampen each applied layer of U-Patch with cold water. Keep the repaired area damp for 20 to 30 minutes after the final set. Curing depends on the ambient and surface temperature. The colder the temperature the longer the set and the warmer the temperature the quicker the set. In above average temperatures, keep the patch moist with water until the final set.

For added waterproof protection, U-Patch may be top coated with Umaco U-Seal thirty minutes after the final set, Umaco Transeal or Siloxane after 2 days, latex paints after 4 days, and oil paints after 14 days. Always follow the paint manufacturer's instructions.

### **COVERAGE**

Approximately 1/2 cubic foot per each 50 lb. bag of U-Patch.

### **PRECAUTIONS**

#### **Hot Weather**

To prevent excessive moisture loss which may cause cracking, crazing and improper sets, the following is recommended:

- Store U-Patch and Add Mix-21 in a cool shady location
- Cool the surface to which U-Patch is to be applied with cold water
- If possible, perform work in the shade
- Do not apply when the temperature is above 90°F
- Mix only a small amount of U-Patch at a time

#### **Cold Weather**

- Store U-Patch and Add Mix-21 in a warm location
- Do not apply over frost or frozen surfaces
- Do not apply when the temperature is below 40°F or is expected to fall below 40°F within 6 hours after application

## **SPECIAL PRECAUTIONS**

- Do not retemper U-Patch after it begins to set.
- Do not apply over surfaces that are improperly prepared.
- Follow all existing control and expansion joints.
- Do not apply to actively moving surfaces.
- When used in sewerage tanks, U-Patch must be top coated with Umaco U-Seal.

## **TECHNICAL DATA**

### **Set Time**

Initial.....5-10 minutes  
Final.....10-20 minutes

### **Compressive Strength**

1 Day.....4,000 psi  
7 Days.....6,300 psi  
28 Days.....7,350 psi

### **Freeze Thaw Resistance**

Excellent, Superior to Concrete

### **Flexural Strength**

Resists Vibration

## **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 Safety Data Sheet (SDS) 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**

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### **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.*



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