

# TWO COMPONENT ACRYLIC POLYMER MODIFIED TOPPING AND UNDERLAYMENT OVERHEAD AND WALL REPAIR

# PATCHCRETE®

- \*Bonds to Virtually Any Surface
- \*Light Gray to Blend with Existing Concrete
- \*Improved Bond and Compressive Strength

## PRODUCT DESCRIPTION

**PATCHCRETE** is a two component polymer modified concrete repair, topping, and underlayment material. The **PATCHCRETE** liquid is a high solids content acrylic polymer. The **PATCHCRETE** Powder #1005 is a portland cement based mix with graded silica and special chemical additives. Polymer modified concrete gives improved bonding, improved chemical resistance, improved water resistance and improved tensile, compressive and flexural strength.

This high strength portland cement/acrylic polymer combination provides a smooth durable semiresilient surface which can be used as a finished floor in most applications. **PATCHCRETE** is easy to mix and apply, requiring no special tools. It is suitable for use as a flowable topping and underlayment, or as a floor, wall or overhead repair material when mixed to a stiffer trowelable consistency. **PATCHCRETE** has been approved by the USDA for use in most processing plants and may be used where there is exposure to potable water.

## PRODUCT APPLICATIONS

**PATCHCRETE** is designed to be used both as a topping or underlayment and as a wall, floor, and overhead patching and repair material when mixed to a stiffer consistency. For use as an underlayment, mix to the consistency of a thick pancake batter. Use **PATCHCRETE** to level and smooth rough or rained on concrete. **PATCHCRETE** may be used to level low areas inside or outside. It will bond to and may be used to level virtually any surface.

Mixed as a repair material, **PATCHCRETE** may be used to repair walls, floors, tilt panels, driveways, sidewalks, precast members, etc. **PATCHCRETE** may be applied from featheredge to 2 1/2 inches. Suitable for interior or exterior applications. Suitable for application where there is rubber tired forklift and vehicle traffic.

## PRODUCT FEATURES

- Outstanding Bonding
- Improved Water Resistance
- Interior or Exterior Use
- From Featheredge to 2 1/2 inches
- May be Used as Flowable Underlayment
- May be Used as a Trowelable Repair Material
- Improved Compressive Strength
- Easy to Mix and Apply
- No Moist Curing Required
- High Solids Acrylic Polymer

## PRODUCT TEST RESULTS (typical)

WORKING TIME:           Approx. 25 minutes  
COLOR:                    Light Gray, available in White  
INITIAL SET                4 Hours

FLOWABLE CONSISTENCY: (1 bag to 1 gallon)  
Compressive Strength (ASTM C-109, Air Cured)  
7 days - 4120 PSI        28 days - 5500 PSI

Flexural Strength (ASTM C-348, Air Cured)  
7 days - 1260 PSI        28 days - 1535 PSI

Slant Shear Bond (ASTM C-1042, Air Cured)  
28 days - 1250 PSI

TROWELABLE CONSISTENCY: (1 bag to .8 gallon)  
Compressive Strength (ASTM C-109, Air Cured)  
7 days - 4550 PSI        28 days - 6000 PSI

Flexural Strength (ASTM C-348, Air Cured)  
7 days - 1360 PSI        28 days - 1720 PSI

Slant Shear Bond (ASTM C-1042, Air Cured)  
28 days - 1550 PSI

**SURFACE PREPARATION:** All surfaces must be clean and structurally sound; free of dust, grease, oil, paint, sealers, etc. Pores of the concrete surface must be open to permit proper bonding. Any necessary surface preparation may be done by sand-blasting, scarifying or acid etching. If acid etch is used, the surface must be neutralized and brushed thoroughly. Concrete surfaces should be kept damp for 1/2 hour prior to installation but no standing water should remain.

**MIXING: PATCHCRETE** may be mixed in a mortar mixer, with a heavy duty low-to-medium speed drill or by hand. Always use a clean mixing container. Place **PATCHCRETE** Acrylic Polymer #1003 in container and add **PATCHCRETE** Powder #1005 to desired consistency, mixing while adding powder. **DO NOT ADD WATER.** Added water will reduce strength and bonding. Mix for 2-3 minutes until a smooth, lump-free mixture is obtained. Mixing time should not exceed 3 minutes. **DO NOT OVERMIX** and **DO NOT** entrap air while mixing.

**USE AS UNDERLAYMENT OR TOPPING:** For use as an underlayment, mix to desired flowable consistency - no more liquid than 1 bag to 1 gallon of polymer. As an underlayment, apply from featheredge to 2 1/2", adding 3/8" dry pea gravel when the depth exceeds 1/2 inch. Material may be screeded for low places or spread into place with a squeegee. When using as a wearing surface topping and for deeper fills, mix to a stiffer consistency (about 7/8 of jug to a bag of powder) and install at least 3/8" thick. **DO NOT FEATHEREDGE** as a wearing surface topping.

**USE AS A TROWELABLE NON-SAG REPAIR MATERIAL:** For floor, wall and overhead repairs, mix about 3/4 to 7/8 of liquid polymer to a bag of powder to get a stiffer, trowelable non-sag consistency. Make a trial batch to get desired consistency. Lubricate trowel and other tools with polymer to prevent dragging.

**INSTALLATION:** To insure proper bonding use **P-100 PRIMER** or apply a bond slurry coat scrubbed into the surface. The **P-100 Primer** will give more reliable and consistent results. Allow the primer to dry (30-45 minutes) and install **PATCHCRETE** material. Material may be applied up to 24 hours after the primer. The primer will re-emulsify one time and may be used for inside and outside applications.

The bond slurry coat is a syrup-like consistency mix of **PATCHCRETE** Powder and Acrylic Polymer. Scrub the slurry coat into the moist surface. Place **PATCHCRETE** in place and smooth and spread while slurry coat is still damp. **DO NOT LET SLURRY COAT DRY.**

Screed off to get a smooth flat surface. Use a trowel for touch-up and featheredging. **DO NOT OVERTROWEL.** Lubricate trowel with polymer to prevent dragging. For best results smooth and spread into place and touch-up as needed. The #1003 polymer makes the material darker. Less polymer will give a lighter finished surface, more polymer a darker surface.

**CONTAINS PORTLAND CEMENT.** Avoid eye contact or prolonged contact with skin. Wash thoroughly after handling. In case of eye contact flush with plenty of water for at least 15 minutes. Consult a physician immediately. Keep out of the reach of children.

Normally floor coverings may be applied the next day. With thick applications or cold or damp weather, another day may be required. No heavy traffic should be permitted for 4-5 days.

For wall applications such as coating or filling concrete block, **PATCHCRETE** may be applied with a hopper gun and then floated smooth.

Do not bridge cracks with **PATCHCRETE**. They will "telegraph" through. Fill cracks prior to placement of **PATCHCRETE**. Expansion joints should be extended through the **PATCHCRETE**.

A latex film will form when **PATCHCRETE** begins to set. This is normal and will disappear

**USE OF AGGREGATE:** For areas with a thickness over 1/2", aggregate should be added to **PATCHCRETE**. Add 1 part by volume of 3/8" pea gravel to 2 parts by volume of **PATCHCRETE**. **DO NOT ADD WATER.**

**PRECAUTIONS:** Do not use below 40°F. The best temperature to use is 60°-90°F. **DO NOT LET PATCHCRETE ACRYLIC POLYMER #1003 FREEZE.** Always make a trial installation first under actual job conditions to be sure you get the desired results before using on larger areas.

**CONTAINS SILICA SAND AND FREE SILICA.** Do not breathe dust. Avoid inhalation by wearing respirator. Continuous exposure and inhalation may cause silicosis and crystalline silica is classified as a known human carcinogen.

**PATCHCRETE** Acrylic Polymer is resistant to most petroleum solvents and sealers and cure'n seal products which are petroleum solvent based. **PATCHCRETE** may soften slightly, but will harden after evaporation of solvent. Wait 4-5 days after **PATCHCRETE** installation before applying a sealer. Always do a sample area first.

When used as an underlayment, always follow the directions of floor covering manufacturer concerning maximum moisture content and perform required tests.

Areas subject to fast drying and outside applications should be covered with damp burlap or plastic for 48 hours. Weathering and surface oxidation may cause a bonding problem with exterior applications. Exterior surfaces should be scarified or sand-blasted prior to application of **PATCHCRETE**.

**COVERAGE:** One 45 lb. bag of **PATCHCRETE** Powder #1005 and one gallon of **PATCHCRETE** Acrylic Polymer #1003 will cover 45 sq. ft. at 1/8" thickness.

**PACKAGING:** **PATCHCRETE** Powder #1005 is packaged in 45 lb. moisture proof bags, 80 to a pallet. **PATCHCRETE** Acrylic Polymer #1003 is packaged in 1 gallon jugs, 4 to a carton and 80 or 144 per pallet.

#### LIMITED WARRANTY

Lyons Manufacturing, Inc. warrants the high quality of its products. However, because of many factors beyond our control in its use, such as job conditions, workmanship, etc., the liability of all parties making and selling this product is expressly limited to the refund of the purchase price of replacement of this material used. Lyons Manufacturing, Inc. will replace any product proven to have a manufacturing defect, FOB Factory, provided Lyons Manufacturing, Inc. is notified of such defect within six (6) months from the date of shipment from the factory. This warranty is in lieu of all other warranties, expressed or implied. Lyons Manufacturing, Inc. makes no warranty of suitability of its products for any particular application and sells its products upon the condition that customer shall conduct their own test to determine the suitability of the product for their purposes. Under no circumstances will Lyons Manufacturing, Inc. be liable for economic, special, incidental, or consequential damages or losses of any kind.

### LYONS MANUFACTURING, INC.

8900 Forney Road ♦ Dallas, TX 75227 ♦ 214/381-8100  
www.lyonsmanufacturing.com

7/00

Distributed by: