Concrete Patch & Repair

ACR® Concrete Patch & Repair is a kit made up of an acrylic latex bonding additive and a specially blended fine cementitious powder, that when mixed together creates a high density, permanent patch and repair material for many cement and concrete based substrates.

The acrylic latex bonding additive is designed for interior or exterior use and is highly durable, with a quick cure.

When mixed together the product has superior adhesion to new and old concrete, cement, brick, stone and other hard surface materials. Once applied ACR Concrete Patch & Repair creates a durable patch that is highly resistant to chemical attack from many aggressive chemicals such as industrial cleaners, oils , organic solvents, fats, urine, etc. ACR Concrete Patch & Repair has high compressive strengths and can withstand forklifts and wheeled equipment and machinery.

ACR Concrete Patch & Repair is specifically designed to repair the surface of concrete and to work in combination with TechCrete Waterproofing Agent, but can be used in many repair applications. ACR Concrete Patch & Repair is part of our environmentally safe system of products.

FEATURES
- Interior or exterior use, above or below grade.
- Resists chipping and cracking from impact or temperature change.
- Can be submerged after curing.
- Resists staining and discoloration.
- Resists lifting, spalling, or crumbling after repeated freeze-thaw cycles.

TYPICAL APPLICATIONS

- Concrete Floors
- Cold Storage Areas
- Concrete Decks
- Concrete Restoration
- Equipment Wash-Down Areas
- Fish Hatcheries
- Fish Ponds
- Foundation Coatings
- Highway Construction

PACKAGING
ACR Concrete Patch & Repair is supplied in the following sizes;
Kit: 40 lbs of cementitious powder and 1 gallon of acrylic latex bonding additive.

APPLICATION
Concrete or masonry surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture-curing membranes, loose cement and hardeners. If the surface is not clean, then the use of one of the following Alchemco Clean & Repair (ACR) products, or a shot blast system, is required for prepping the surface for warrantied applications. Chemical cleaning may require multiple applications and the use of different products to achieve complete cleaning. Certain types of cleaning equipment may improve performance and speed of application when applying chemical cleaners, contact the Technical Department for a list of approved equipment and cleaning methods.

- ACR Concrete & Masonry Cleaner
- ACR Emulsifying Cleaner
- ACR Paint & Stain
- ACR Concrete & Masonry Etch
- ACR Rust Converter & Inhibitor

Contact the Technical Department for help and directions for which cleaning product will provide the best option for a clean surface.

Mixing Instructions
Mix one 40 pound pail of the cementitious powder with 1 gallon of the acrylic latex bonding additive. Use only when temperature will be above 50°F (10°C) during application and for the following 48 hours.

Application Instructions
Using a cement trowel or other appropriate tool, spread ACR Patch & Repair over the application area up to a thickness of 1/4". Product may be applied to a feathered edge.

Coverage Rate

Average Depth	Coverage
1/16"	80 square feet
1/8"	40 square feet
1/4"	20 square feet

Curing Properties
ACR Concrete Patch & Repair has a working time of 30 to 60 minutes. ACR Concrete Patch & Repair retains water during the curing process for a stronger finished product. Damp curing is not needed under ordinary conditions. However, under hot, dry, windy conditions, the surface should be kept damp to prevent it from drying to quickly.

Alchemco

PRODUCT PROPERTIES - Acrylic Latex Bonding Additive

Finish:	Glossy
Color:	Dries clear, milky white uncured
Volume Solids:	23%
VOC (calculated):	0

PRODUCT PROPERTIES - Cementitious Powder

Finish:	NA
Color:	Cementitious Gray
Volume Solids:	100%
VOC (calculated):	0

PERFORMANCE CHARACTERISTICS

Test Name	Test Method	Results
Compressive Strength	ASTM C109 Strength at 3 days Strength at 7 days Strength at 28 days	5900 psi 6900 psi 7800 psi
Tensile Strength	ASTM C190 Strength at 28 days	1020 psi
Flexural Strength	ASTM C348 Strength at 28 days	1540 psi

SHELF LIFE & STORAGE

Containers should be sealed and kept in a cool dry location. Avoid prolonged exposure to direct sunlight. If properly maintained this product has a shelf life of twelve (12) months from shipping date.

WARRANTY & SYSTEMS

The following warranties require the use of **ACR Concrete Patch & Repair** or one of the approved cleaning products or methods, and are only available through *TechCrete Certified Applicators*;

• New & Existing Construction: TechCrete **EMERALD** *15-Year Limited Liability Material & Labor Warranty.*

The following warranties are available when using **ACR Concrete Patch & Repair**;

• New & Existing Construction: **ACR 2***0-Year Limited Liability Material Warranty*. This warranty requires that the project be registered with Alchemco.

For additional information about the Alchemco system specifications or available warranties, either contact your local Alchemco distributor or Alchemco's Technical Department at info@alchemco.com or call 800-610-2895.

WARNINGS

WARNING! Skin and eye irritant.
May cause skin sensitization.

FIRST AID: Eyes – Flush with water for 15 minutes and call physician.
Skin – Wash thoroughly with soap and water.
Use in well-ventilated area.

KEEP OUT OF REACH OF CHILDREN.

IF SWALLOWED: Do not induce vomiting. Immediately call a POISON CONTROL CENTER or doctor/physician.

See Safety Data Sheet for further details regarding safe use of this product. Alchemco, 8590 Sanford Drive, Henrico, VA 23228 800-610-2895.

TECHNICAL DATA

A division of MBC North America, Inc.
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