

PATCH ALL

Fast Setting Vertical
and Overhead Repair Mortar

MANUFACTURER:

Empire Blended Products, Inc.
250 Hickory Lane • Bayville, NJ 08721
(732) 269-4949 • Fax (732) 269-0497

PRODUCT DESCRIPTION:

PATCH ALL is a single component, Portland Cement based, polymer modified material designed to repair and rehabilitate vertical and overhead concrete and masonry surfaces without the need for costly form work. The fast setting, low shrinkage and high strength of *PATCH ALL* allow it to be placed and sculpted to final shape in a single application up to 2" in thickness.

USES:

- Vertical and overhead repairs of concrete and masonry
- Fast repair of bridges, pilings and buildings
- Fill cracks and voids in curbs, steps and floors
- Rebuild cornices and ornate precast without forming
- Repairs of precast concrete panels and concrete pipes

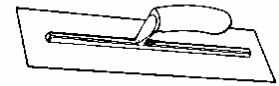
ADVANTAGES:

- High polymer modification provides tenacious bond
- Fast setting, 6-20 minute initial set
- Apply from featheredge up to 2" in single application
- Make repairs without costly forming
- Self-curing
- Non-shrink
- Free of chloride, gypsum and heavy metal
- Freeze-thaw resistant
- Sulfate resistant
- Single component

INSTALLATION:

Placement:

PATCHING AND REPAIR VERTICAL AND OVERHEAD



Surface Preparation:

Surfaces to be repaired must be structurally sound, clean and free of dust, dirt, oils, paints and all other contaminants that will prevent proper bond. Remove all loose material and rust from corroded rebar by wire brushing, chipping, sandblasting or waterblasting. Clean surfaces to be treated by vacuuming, with compressed air or thoroughly brushing to remove small particles and dust. Prime all exposed metal and cleaned rebar with a slurry of *PATCH ALL*. Mix slurry coat by adding *PATCH ALL* to clean water to a batter-like consistency and brush coat all exposed surfaces to receive *PATCH ALL*. Prior to application, all surfaces should be saturated, making sure there is no standing water remaining. Any acid-based cleaning solution must be neutralized before priming.

Mixing:

Mix 4 parts *PATCH ALL* to 1 part clean potable water (10 pounds material to 1 quart of water, 50 pounds to 5 quarts). Keep mix to a heavy, putty-like consistency. Mix only until completely blended and free of lumps. If using a drill mixer to blend material use a slow speed high torque drill at no more than 500-650 RPM. Add material to water in bucket or mortar mixer, but add water to material if hand mixing smaller batches. Clean sharp sand or stone up to 1/2" may be added at a ratio of 1 part aggregate to 2 parts *PATCH ALL* by weight. The addition of sand is recommended for all single application repairs over 3/4" in thickness. Do not mix more material than can be placed in 10 minutes. Do not retemper after initial mixing.

Trowel on immediately. Vertical or overhead

patches greater than 2" in depth may need to be built up in successive layers. If layering deep patches, scratch surface of each layer. Allow previous layer to tighten (5-10 minutes) before building another layer. Dampen first layer before applying second. Overfill patch and shave to shape. *PATCH ALL* can be shaved with a trowel for up to 1 to 2 hours after initial set. Try to avoid overworking a patch. Finish with a damp sponge, brush or steel trowel.

Curing:

During the first 24 hours, it is best to keep the patch covered or damp to prevent excessive loss of water. Portland Cement based finishes may be applied after only 30 minutes. For latex based paints wait at least 4 days, and for oil based paints material should be allowed to cure for at least 14 days.

Coverage:

One pound of *PATCH ALL* will yield approximately 17 cubic inches. One 50 pound unit will yield approximately ½ cubic foot.

Packaging:

Available in 10 pound plastic pails (4 per carton), 50 pound multiwall paper bags with moisture barrier and 50 pound plastic pails

Color:

Light Gray

TECHNICAL DATA:

Appearance Fine, gray powder
 pH (wet mix) Approximately 12
 Water Penetration (3 day soak) ½ inch
 Air Content (wet mix) 5.3%

TEST	24 HR PSI	7 DAY PSI	28 DAY PSI
Compressive	2,675	6,810	7,025
Flexural	575	835	915
Tensile	270	465	520
Gardner Impact	greater than 158 inch lbs.		

LIMITATIONS:

Product is temperature sensitive regarding set time; below 60°F set is slower, above 80°F set is faster. In hot weather, cool surface to be patched with cold water and use cold water for mixing. Do not apply

PATCH ALL when dry product or surface temperature is below 40°F. Dry product and surface can be warmed with a torch. Do not use "antifreeze" or set accelerator solutions. Do not add any concrete additives. Protect from precipitation for at least 4 hours.

CAUTION:

Contains Portland Cement CAS # 65997-15-1. Freshly mixed cement products may cause skin injury. Avoid contact with skin where possible and wash exposed areas promptly with water. If any product gets into the eye, rinse immediately and repeatedly with water. If ingested, **do not** induce vomiting and get prompt medical attention. Also contains Sand CAS # 14808-60-7. Avoid breathing dust. Prolonged exposure to dust may cause delayed lung injury (silicosis) or cancer IARC Class 2A. Wear NIOSH approved mask for silica dust. **Keep Out Of Reach Of Children.**

WARRANTY:

Due to the use of this product beyond our control, we assume no liability for damages of any kind, and the user accepts the product "as is" and without warranties, expressed or implied, from either Empire Blended Products or its agents. The suitability of the product for an intended use shall be solely up to the user. Our only obligation shall be to replace or pay for any material proved defective, with our liability limited to the purchase price of materials supplied by us.