

CERTI-VEX® ALL PATCH

TWO COMPONENT POLYMER REINFORCED REPAIR MORTAR HORIZONTAL REPAIRS • RAPID SETTING & STRENGTH GAIN

DESCRIPTION

CERTI-VEX ALL PATCH is a two component, rapid setting portland cement based polymer reinforced high strength dense patching mortar. Engineered for improved adhesion and durability as well as chemical resistance to repair and rehabilitate a wide variety of concrete and masonry surfaces.

Each self contained kit consists of a rapid setting, low shrinkage and high strength repair mortar and a liquid acrylic admixture. Certi-Vex All Patch makes job site repairs easy and convenient simply combine the liquid admixture with the mortar and mix.

BENEFITS

- Versatile patching mortar
- Prepackaged and ready to use kit
- Feather edge repairs up to 2"
- Excellent freeze/thaw resistance
- Excellent strengths
- Fast setting
- Increased abrasion, water and chemical resistance
- Excellent bonding

RECOMMENDED FOR

- Surfaces subject to freeze/thaw cycles
- Repair concrete and masonry surfaces
- Parking garages, ramps, warehouses, loading docks, bridge decks, industrial floors and general surface repairs
- Interior and exterior use on above or below grade repairs

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.
- Prepare area by high pressure water blast, or other mechanical means to expose an aggregate surface with a minimum surface profile of +/- 1/16 inch.
- If reinforcing steel is exposed, remove 1 inch of surrounding concrete. If there is corrosion on the reinforcing steel remove concrete 3 inch beyond any evidence of corrosion along the steel. Remove all corrosion and protect the steel with a corrosion resistant barrier or a slurry coat of Certi-Vex All Patch (Part B). If applying a slurry coat apply two applications allowing to dry between applications.

SURFACE CONDITIONING

The surface to receive the repair material must be saturated, surface dry (SSD) with no standing water.

PRIMING

- Prime the prepared substrate with a brush or spray applied coat of **StarSeal® Envio Bond** to the SSD surface.
- Alternatively, apply a scrub coat onto all exposed surfaces to receive Certi-Vex All Patch. Place Certi-Vex All Patch into the wet scrub coat before it dries.

MIXING

- Mechanical mixing is preferred. Use a slow speed 1/2-inch drill (500-650 rpm) and a paddle for best results. The components can also be mixed in a mortar mixer.
- In a clean container add ¾ of liquid (Part A) then slowly add the mortar (Part B), into the same container; mix until a smooth uniform consistency without lumps is obtained. Add remainder of liquid to achieve desired consistency. Continue mixing for approximately 2 minutes to ensure a uniform, lump free consistency.
- **NOTE:** Do not mix longer than four (2) minutes. Do not mix more material than can be placed in 5 minutes. **DO NOT RETEMPER.**
- **NOTE:** A trowelable consistency will be achieved when one (1) gallon of Part A is used.

SET TIMES

Site environmental conditions such as air and substrate temperature will also affect set times.

PLACEMENT & FINISH

- Mixed product should be placed immediately.
- Certi-Vex All Patch must be scrubbed into the substrate, filling all pores and voids. Force material against edge of repair, working toward center. After filling the repaired area, consolidate, then screed. Material may be applied in multiple lifts.
- The thickness of each lift, not to be less than 1/8 inch minimum or more than 2 inches maximum. Where multiple lifts are required score top surface of each lift to produce a roughened surface for next lift. Allow previous layer to tighten (5-10 minutes) apply scrub coat before building another layer. If first lift is fully hardened follow directions under Priming.
- Allow mortar to set to desired stiffness, and then finish final layer with steel trowel or sponge float. Certi-Vex All Patch can be sculpted for proper profile.

CURING

Cure as per ACI recommendations for portland cement concrete. Beginning as soon as the patch has set, keep surface continuously moist for 24 hours, using burlap, fine mist, or a water based cure such as Vexcon's Envio Cure 100. Protect the newly placed material from wind, sun, rain, and frost. When conditions exist for rapid water loss, the use of **Certi-Vex Envio-Assist**, evaporation retarder is recommended.

Yield (per kit)

When used in accordance to directions each kit will cover approximately .45 cubic feet.

PACKAGING

Certi-Vex All Patch comes in a heavy duty plastic container which contains 50 lbs of powder (Part B) and one gallon of liquid, (Part A).

HEALTH AND SAFETY

- Use only with adequate ventilation.
 - Use of gloves, goggles and other protective clothing is advised when using this product.
 - If swallowed, do not induce vomiting.
 - Use of respirators is advised when using in confined areas.
- Vexcon MSDS RP117 is an integral part of the safety and application of our product. A short synopsis is provided in this product data sheet. Before using this Vexcon product it is advisable to obtain a copy of the MSDS, RP117, from your distributor or by contacting Vexcon Chemicals.

SHELF LIFE

If properly stored in its original sealed container, one year from date of manufacture. Rotate your stock.

CONTACT US @

Additional product information, technical assistance and customer service are available by contacting Vexcon Chemicals directly or our distributors.

- vexcon.com
- techservice@vexcon.com
- customerservice@vexcon.com
- sales@vexcon.com
- Voice: 888.839.2661
- Fax: 215.332.9997

LIMITATIONS/SPECIAL NOTES

- Do not attempt to RETEMPER or add water to the surface during finishing.
- All materials should be conditioned to the appropriate temperature range of 50° F to 90° F (10° C - 32° C) prior to mixing and placement.
- Do not apply when air, surface or material temperature is below 50° F (10° C).
- Protect liquid from freezing.
- Do not add water.
- Do not use solvent based cures.
- For additional information on substrate preparation refer to ICRI guide lines.
- Storage/ Handling: Store in tightly sealed original factory container. Keep from freezing and exposure to moisture. Store at room temperature prior to use. Care should be taken to keep dirt, water and contaminants away from the opening of containers.
- Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- Proper application of Vexcon material is the responsibility of the installer or user. Telephone consultation and/or field visits by Vexcon personnel are for the sole purpose of making technical recommendations only, and not for providing quality control or supervision on location.

TECHNICAL DATA

Set Time (Gilmore)		
Initial		10 Minutes
Final		18 Minutes
Compressive Strength (ASTM C 109)		
1 Day		4,850 psi
7 Days		7,350 psi
28 Days		8,225 psi
Shear Bond (ASTM C 882)		
7 Days		1,100 psi
28 Days		1,390 psi
Shrinkage/Expansion (ASTM C 157)		
28 Days		0.034%
Tensile Strength (ASTM C 190)		
1 Day		580 psi
28 Days		780 psi
Freeze/Thaw Resistance (ASTM C 666)		
50 cycles		Excellent
Color		Light Gray

WARRANTY

Vexcon warrants that the goods supplied hereunder shall be of its standard quality and shall conform in all material respects to the sample which has been made available for testing by buyer prior to sale. As the EXCLUSIVE REMEDY for any breach of this Limited Warranty, Vexcon shall replace nonconforming goods or refund the purchase price. Since methods of use and application are beyond Vexcon's control, this Limited Warranty IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THOSE CONCERNING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS LIMITED WARRANTY IS ALSO IN LIEU OF ANY OTHER POSSIBLE LIABILITIES OF VEXCON, WHETHER ALLEGED TO ARISE BY AGREEMENT OR BY OPERATION OF LAW, RESPECTING THE SALE, APPLICATION, USE OR FUNCTION OF VEXCON'S PRODUCTS, INCLUDING BUT NOT LIMITED TO CLAIMS OR NEGLIGENCE, GROSS NEGLIGENCE, STRICT LIABILITY OR ANY OTHER TORT. IN NO EVENT SHALL VEXCON BE LIABLE FOR PERSONAL INJURY OR PROPERTY DAMAGE, REAL OR PERSONAL, ATTRIBUTED TO ITS PRODUCTS, NOR FOR ANY EXCAVATION, REMOVAL, REAPPLICATION, DOWN TIMES, CLEANUP, LOSS OF USE, LOSS OF OPPORTUNITY, LOSS OF MARKET VALUE, LOSS OF RENTAL VALUE OR FOR ANY LOSS OF PROFITS OR OTHER SPECIAL, INCIDENTAL, RESULTING, CONSEQUENTIAL OR EXEMPLARY DAMAGES. No person is authorized by Vexcon to assume for it any other liability of any kind in connection with the sale or use of products manufactured and sold by it, and there are no oral agreements or warranties collateral to or affecting any sale or use. All of the foregoing arises under the substantive law of Pennsylvania without regard to principles of conflicts of laws.