

CERTI-VEX® PATCH FP

THIN SET PATCHING and REPAIR MORTAR

FEATHER EDGE • POLYMER MODIFIED

DESCRIPTION

CERTI-VEX PATCH FP uses advanced polymer modified portland cement for the patching and restoration of concrete floors which are not subjected to concentrated or point loading. Certi-Vex Patch FP can also be used on walls, precast, and tilt-up panels, as well as masonry and stucco. Similar to concrete in color, Certi-Vex Patch FP is ideal for repairing of surface defects in concrete and masonry such as cracks, spalls, bugholes and shallow honeycombs. Certi-Vex Patch FP may be used in place of rubbing and sacking by coating both new and old concrete surfaces to produce a uniform texture and color. Certi-Vex Patch FP may be trowel applied to smooth or texture the surface of concrete block.

BENEFITS

- One component, just add water
- Polymer fortified formulation
- Excellent freeze/thaw resistance
- Self curing in most applications
- High compressive, flexural, tensile and bond strength
- Excellent performance from feather edge to ½ inch thickness
- Extended working time

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.
- For optimum results, bonding surface should be roughened by sandblasting or other mechanical means.

SURFACE CONDITIONING

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

MIXING

Desired Thickness

Feather to ½ inch

Brushable

Mixing Water

5.5-6.0 pints

6.0-6.5 pints

- These are based on a 25-pound bag. 1 pound of Certi-Vex Patch FP covers approximately 1 sq ft at 1/8 inch thickness. Used as a repointing mortar, 1 pound will fill 17 cubic inches. Used as a brush applied slurry coat, 1 pound covers approximately 4 – 5 square feet.
- Small quantities can be mixed by hand, adding clean water to a suitable, clean container at the rate of 2.4 pints for each 10 pounds of Certi-Vex Patch FP, or approximately 3.75 – 4 ounces per pound. Larger batches require a jiffy type mixing paddle and a drill operating at slow speed.
- Start by placing the measured mixing water into the mixing container. Add Certi-Vex Patch FP to the water and mix for 2-3 minutes until a uniform lump free consistency is obtained. The working time at 73° F (23° C) is approximately 45 minutes.
- A test application is recommended.

MIXING

- Mix a small quantity of Certi-Vex Patch FP at the specified mixing water ratio to determine consistency and working time under site conditions.
- A mix consistency can be prepared from stiff to a thin trowelable consistency as your needs demand.
- Always use the minimum amount of mixing water that allows proper placement.

SET TIMES

To extend set time use cold water. To reduce set time use hot water. Site environmental conditions such as air and substrate temperature will also affect set times.

PLACEMENT & FINISH

- Remove any standing water from the patch area immediately prior to placement.
- Apply Certi-Vex Patch FP with a trowel from featheredge to ½ inch thickness.
- If blistering occurs, use a trowel or float with a coarse textured surface or delay finishing until material starts to set.

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

When used in accordance to directions Certi-Vex Patch FP yields .24 cu.ft per 25 lb bag when used with 1.6 quarts of mixing water per 25 pounds.

PACKAGING

Certi-Vex Patch FP is available in 25 pound bags. Contact Vexcon directly to discuss your customized packaging requirements.

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 85° F (10° C - 30° C) prior to mixing and placement.
- For applications over ½ inch use **Certi-Vex Patch**.
- Do not add admixtures of any type.
- If product runs or sags when applied to vertical surfaces, reduce the mixing water quantity.
- Avoid overworking the surface. Do not wet the surface of the patching material while finishing. The patch surface can be shaved or textured as Certi-Vex Patch FP begins to set.
- Do not apply when air, surface or material temperature is below 40° F (4° C).
- Protect from freezing
- Do not exceed liquid requirements
- Do not use solvent based cures
- For additional information on substrate preparation refer to ICRI guide lines.
- Do not use Certi-Vex Patch FP where the patched area will be subject to continuous immersion in water unless a protective coating is applied. Verify coating compatibility with Certi-Vex Patch FP by conducting a test application.
- 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

Compressive Strength (ASTM C 109)

1 days	Average 2,500 psi
3 days	Average 3,000 psi

Set Time (ASTM C 191)

Initial	9-10 minutes
Final	16-20 minutes

SHELF LIFE

If properly stored in its original sealed bag, one year from date of manufacture. Rotate your stock. Store in shaded area.

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 RP105 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, RP105, from your distributor or by contacting Vexcon Chemicals.

CONTACT US @

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

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

WARRANTY

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