



Willamette Valley Company

www.wilvaco.com

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Partnering through service,
innovation, and integrity

POLYQuik® FastPatch AC

AC (Asphalt and Concrete) Flexible Asphalt and Concrete Repair

DESCRIPTION

POLYQuik® FastPatch AC is a two-component urethane designed as a repair product for asphalt and concrete roadways. It is a 100% solids product supplied in ready-to-use kits, totes for meter applications, or cartridges. Asphalt and concrete repaired with POLYQuik® FastPatch AC can be opened to traffic in an hour.

WHERE TO USE – Fill Voids, Defects, or Damaged Areas in:

- Roadways
- Parking Lots
- Warehouse
- Sidewalks

FEATURES AND BENEFITS

- **Easy to Use**—most anyone can apply it
- **Fast Curing**—reopen to traffic quickly
- **Flexible**—absorbs impact and stress
- **Excellent Adhesion**—restores damaged areas

PACKAGING

5 gallon Ready-to-Use Kit
Cartridges
Totes

COLORS

Black

YIELD

5-gal kit = .72 gal resin mixed (0.167ft³).
With aggregate = approximately 2.00 gal (0.27ft³)
Cartridges
Totes

SHELF LIFE

1 year when properly stored.

STORAGE

Store and ship this product in a clean, dry, low-humidity, shaded or covered environment at 60 to 90° F (15 to 32° C).

TECHNICAL INFORMATION

Typical Properties

VOC , lbs/gal (g/L), ASTM D 2369	0
Viscosity , cps, ASTM D 4878, mixed	600
Service temperature , ° F (° C)	-30 to 170 (-34 to 77)
Potlife , min., 70° F (21° C)	8(26 for aggregate extended)
Set Time , min., 70° F (21° C)	9(45 for aggregate extended)
Hardness , Shore D, ASTM D 2240	50
Concrete adhesion , psi (MPa), ASTM D 4541	600 (4.14) 100% substrate (primed)

Processing Parameters

Ratio by volume	1 to 1 (Resin to Iso)
Application temp , ° F (° C)	38 to 100 (10 to 37)
Recommended Thickness	Greater than 1"
Recommended Repair Size	Less than 10 ft ² (1m ²)
Mix Tube Size for mechanical application	13 mm diameter with 32 element

APPLICATION

SURFACE PREPARATION

CONCRETE

1. The concrete surface being repaired must be fully cured 28 days, structurally sound (200psi or greater according to ASTM D7234), clean (ASTM D4258), and dry (less than 5%, ASTM E1907).
2. Concrete surface must be dry and clean. Water or oil present can result in poor adhesion. Apply product only if surface temperature is 5° F (3° C) above the dew point to avoid application over damp surface.
3. Remove any contaminants before profiling surface.
4. It is recommended to profile surface according to ICRI Guide 03732 to a minimum of CSP 3 by abrasive blasting.
5. Saw cut spall area in shape of a square 1-3 inches (2.54-7.6 cm) deep, hammer (15 lb) spall area and remove debris. Recommended repair size is less than 10 ft² (1m²).
6. Use a minimum 150 PSI continuously dry compressed air to blow out loose debris, dirt and dust prior to applying product. Moist concrete can be torched dry. If moisture returns immediately after torching, stop and do not install FastPatch AC in this area.
7. Use a steel bristle brush to remove dirt on vertical and horizontal concrete surfaces and use compressed air to blow out prior to applying product.
8. As necessary, plug all gaps or joints surrounding the spall area with foam backer rod and choose a rod width that fits tightly in the area.
9. Priming all concrete surfaces is recommended. Prime with POLYQuik® IK Primer or POLYPrime.
10. For spall areas, honor all joints or moving cracks in the spall area by saw-cutting after FastPatch AC has cured.

ASPHALT

1. FastPatch AC works best when applied to asphalt aged at least 2 years since initial application.
2. Apply product only if surface temperature is 5° F (3° C) above the dew point to avoid application over damp surface.
3. Use a minimum 150 PSI continuously dry compressed air to blow out loose debris, dirt and dust prior to applying product. Use a steel bristle brush to loosen additional debris and repeat air blowing as needed. Moist asphalt can be torched dry, but if moisture returns after torching, do not apply in this area.

OTHER MATERIALS

1. Previously installed polymer materials must be tested to determine the best method of preparation to achieve acceptable adhesion. Consult manufacturer for recommendations. Typically, methods will include solvent cleaning, abrading, and vacuuming surface.
2. FastPatch AC has been tested and approved for application over FastPatch MD/GC.

FastPatch AC - KITS

PROCESSING

1. Precondition the RESIN, ISO and AGGREGATE to 70°F (21°C) for 24 hours before use.
2. RESIN, ISO, and AGGREGATE can be heated up to 100°F (38°C) to speed cure at colder temperatures. It is recommended to heat all components when the temperature is below 50°F (10°C).
3. Use entire kit and do not divide.
4. Check that surfaces are ready for application of FastPatch AC before applying mixed material.
5. Ensure that the mixing station is a short distance from the application area. Multiple kits can be mixed at the same time when repairing large or multiple repairs.
6. For kit applications, attach grout mixer, or mixing paddle to drill (450 rpm, 7amp minimum, with a side handle recommended). The type of drill is very important as this product can be very difficult to mix otherwise.

APPLICATION

1. Protect the surfaces around the application area to prevent contamination during the installation.
2. Open the 5-gallon kit. Inside are two containers (1/2 gal – RESIN, 1/2 gallon – ISO), and AGGREGATE. Do not divide the kit; each kit is made for one application.
3. An empty 5-gallon bucket is also supplied with the kit. Pour both the ISO and the RESIN into the empty bucket first, then dump the AGGREGATE on top of the fluid.
4. Mix all components vigorously for 2-3 min. Adequate mixing is vitally important to attain the desired final product.
5. IMMEDIATELY pour mixed FastPatch AC into the void.
6. Use a trowel or power tamper to level and compress FastPatch AC.

TABLE 1: Effect of temperature on pot life.

Temp. °F (°C)	Pot Life, min. - Aggregate Extended
100 (37)	10
77 (25)	26
45 (7)	45

FastPatch AC – Meter or Cartridge dispensed

FastPatch AC can also be applied as a neat material (without premixing with AGGREGATE) to fill smaller voids where it's not practical to use AGGREGATE. Or if metering or cartridge dispensing is preferred for larger voids as well, AGGREGATE can be packed into the void prior to metering or cartridge dispensing over the top of the AGGREGATE.

PROCESSING

1. For meter applied applications contact Willamette Valley Company Precision Technologies Division for equipment recommendations.
2. Precondition the RESIN and ISO to 70°F (21°C) for 24 hours before using.
3. For meter applications mechanically mix RESIN for at least 30 minutes before proportioning begins. Use a mixer fitted with blades that are 1/3 the diameter of the container to redistribute any settled material.
4. Test the meter operation and FastPatch AC before dispensing in the void using a 13 mm diameter mixer with 32-elements. Dispense in test area to verify FastPatch AC material sets up in less than 15 minutes.

APPLICATION

1. Dispense FastPatch AC on the walls and ENTIRE floor of void.
2. If AGGREGATE is being used, fill void flush with surrounding surface. For multiple repairs, dispense FastPatch AC in the first void while AGGREGATE is being placed in the next.
3. Dispense FastPatch AC into void over the AGGREGATE. Fill until FastPatch AC is nearly flush with the surface of the AGGREGATE, leaving some texture on the surface. Level, or compress and tamp manually with a trowel, or mechanical tamper.

NOTE: Neat material is workable for approximately 8-minutes at 70°F. Material will be ready for traffic in 1-hour at 70°F. Colder temperatures and cold gravel will slow the cure. Warmer temperatures will speed the cure. Return to service time is typically 1-hour at 70°F.

CLEANING & MAINTENANCE

- Clean equipment with POLYQuik® Cleaner or acetone immediately after use. Cured material must be removed mechanically.

HEALTH AND SAFETY

Before handling, you should become familiar with the Material Safety Data Sheet (MSDS) regarding the risks and safe use of this product. To obtain an MSDS please call 800 333 9826 or send an email to: msds@wilvaco.com.

DISCLAIMER OF WARRANTY

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