

Technical Data Sheet



Willamette Valley Company

www.wilvaco.com

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Partnering through service,
innovation, and integrity

FastPatch AC

AC (Asphalt and Concrete) Flexible Asphalt and Concrete Repair

DESCRIPTION

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. 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 Kit

COLORS

Black

YIELD

5-gal kit (neat material mixed) = .72 gal (0.167ft³).
5-gal kit (with aggregate) = approximately 2.00 gal (0.27ft³)

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 PolyPrime or contact WVCO for proper primer selection.
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 AC.

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 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 AC into the void.
6. Use a trowel or power tamper to level and compress FastPatch AC 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

HEALTH AND SAFETY

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

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