

Technical
Data Sheet



Willamette Valley Company

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Partnering through service,
innovation, and integrity

POLYQuik® FastPatch SC

Flexible Spall Repair

DESCRIPTION

POLYQuik® FastPatch SC is a flexible, two-component urethane designed as a fast curing repair product for concrete. It is 100% solids product supplied in ready-to-use kits. FastPatch SC has excellent adhesion to concrete. Concrete repaired with FastPatch SC can be opened to traffic in as little as 1 hour.

WHERE TO USE

- **Roadways**—repair cracks, spalls, broken slabs
- **Parking Lots**—repair damaged areas
- **Warehouses**—transitions or spalls
- **Sidewalks**—broken or damaged areas

FEATURES AND BENEFITS

- **Cold Applied**—easy to use and safe to apply
- **Fast Curing**—reopen to traffic quickly
- **Flexible**—absorbs impact and stress
- **Excellent Adhesion**—restores damaged areas

PACKAGING

5-gallon kit
High Yield Kit

COLORS

Gray

YIELD

5-gallon kit = 1.25 gal resin mixed (0.167ft³).
With sand volume = 1.95 gal (0.26ft³)

High Yield Kit = 3.75 gal resin mixed (0.5ft³).
With sand volume = 5 gal (0.66ft³).

SHELF LIFE

1 year when properly stored.

STORAGE

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

TECHNICAL INFORMATION

Typical Properties

Hardness, Shore A, ASTM D 2240	85
Potlife, minutes, 70° F (21°C)	5
Service temperature, ° F (° C)	10 – 170 (-12 - 77)
Viscosity, cps, ASTM D 4878, aggregate included	7,000
VOC, lbs/gal (g/L), ASTM D 2369	0

Processing Parameters

Ratio by volume	4 to 1 (resin to ISO)
Application temp, ° F (° C)	50 to 100 (10 to 37)
Application method	Mechanical mix & pour
Recommended thickness	> 1/4"

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 16 ft² (1.49m²).
6. Use a minimum 120 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 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. Refer to primer TDS sheets for detailed instructions.
10. For spall areas, honor all joints or moving cracks in the spall area by saw-cutting after FastPatch has cured.

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 is not typically recommended for use in asphaltic roadways. Exceptions do occur; contact Willamette Valley Co. for more details.
3. Avoid placing FastPatch on asphaltic materials, bare ground, dirt, grass or other non-structural surfaces.

PROCESSING

1. Precondition Kits to 70°F (21°C) for 24 hours before use.
2. Kits can be heated up to 100°F (38°C) to speed cure at colder temperatures. It is recommended to heat all components when the surface temperature is below 50°F (10°C).
3. Check that primed surfaces are ready for application of FastPatch before applying mixed material.
4. 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.
5. Use entire kit and do not divide.

6. Attach a clean mixing blade with a width 1/3 the diameter of the mixing container to a 500RPM drill.
7. POTLIFE IS LESS THAN 5 MINUTES. USE IMMEDIATELY AFTER MIXING.

APPLICATION

1. Protect the surfaces around the application area to prevent contamination during the installation.
2. Prime all surfaces.
3. **5-gallon Kits** - Remove the two containers from the 5-gallon bucket (1 gal – resin, 0.25 gallon – iso), while leaving the sand. Shake the 1-gallon resin container for 30 seconds and pour the contents into the mixing bucket with the sand. Continue at Application Step 5.
4. **High Yield Kits** – Gather bagged sand, resin pail and jug of iso.
5. Mix the sand and resin together for 30 seconds or until the sand is completely wetted out by the resin.
6. Add the iso to the filled bucket and mix the material together for 30 seconds. Scrape the SIDES and BOTTOM of the bucket with a straight edge and continue to mix for an additional 30 seconds. All of the iso must be thoroughly incorporated in the resin before adding it to the spall. THE MATERIAL MAY NOT SET-UP IF IT IS IMPROPERLY MIXED. Signs of poor mixing include dark swirls and tacky material that does not solidify.
7. Pour the material into the desired concrete spall and shape using a plastic trowel.
8. Add topping sand as necessary when the material has gelled. Add topping sand to refusal.

NOTE: Material is typically ready for traffic in 1-hour at 70°F (21°C). Colder temperatures and cold gravel will slow the cure. Warmer temperatures will speed the cure.

SKID RESISTANCE: It is the responsibility of the Applicator to ensure the product meets the minimum skid resistance requirement. Refer to the Agency or End-user friction management policy or specifications to determine the minimum skid resistance and test method requirement. Aggregate (Sand, pumice, flint) can be added topically at the gel stage or Fastpatch can be ground, sanded or abraded to achieve any necessary skid resistant texture.

Temp.	Pot Life	Estimated Return to Service (min.)
101	> 4	30
72	5	60
52	8	90

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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PROPER APPLICATION IS THE RESPONSIBILITY OF THE USER. AS WITH ANY PRODUCT THE USE OF THIS PRODUCT IN A GIVEN APPLICATION MUST BE TESTED (INCLUDING BUT NOT LIMITED TO FIELD TESTING) IN ADVANCE BY THE USER TO DETERMINE SUITABILITY. TESTING IS THE REQUIREMENT OF BOTH ENGINEERS AND CONTRACTORS ALIKE. WVCO DOES NOT WARRANT THE APPLICATION UNDER ANY OR ALL CIRCUMSTANCES.

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