

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 is a flexible, two-component urethane designed to be a fast curing repair product for concrete roadways. It is a 100% solids product supplied in ready-to-use kits. POLYQuik® FASTPATCH SC has excellent adhesion to concrete and repaired areas can be opened to traffic in an hour.

### WHERE TO USE

- **Roadways**—fill voids or patch defects
- **Parking Lots**—repair damaged areas
- **Warehouses**—transitions or spalls
- **Sidewalks**—broken or damaged areas

### FEATURES AND BENEFITS

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

### PACKAGING

5 gallon Kit  
(31.5 lbs. or 69.5 kg.)

### COLORS

Gray

### YIELD

1.85 gal. (7.0 liter)  
0.25 cubic feet (0.007 cubic meters)

### 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

<b>Hardness, Shore D, ASTM D 2240</b>	85
<b>Potlife, minutes, 70° F (21°C)</b>	4
<b>Service temperature, ° F (° C)</b>	30 – 170 (34-77)
<b>Viscosity, cps, ASTM D 4878, Mixed</b>	7,000
<b>VOC, lbs/gal (g/L), ASTM D 2369</b>	0

### Processing Parameters

<b>Ratio by Volume</b>	4 to 1 (resin to ISO)
<b>Application temp, ° F (° C)</b>	50 to 100 (10 to 37)
<b>Application method</b>	Mechanical mix & pour
<b>Recommended Thickness</b>	> 1/8"

## APPLICATION

### SURFACE PREPARATION

#### CONCRETE

1. The surface being repaired must be fully cured 28 days, structurally sound (200psi or greater according to ASTM D4541), clean (ASTM D4258), and dry (less than 5%, ASTM E1907 and ASTM D4263).
2. Remove any contaminants before profiling surface.
3. Profile surface according to ICRI Guide 03732 to a minimum of CSP 3 by abrasive blasting.
4. Use compressed air to blow out loose debris, dirt and dust prior to applying product.
5. Priming all concrete surfaces is recommended. Prime with POLYQuik® IK Primer (MC) or POLYQuik® EPOXY PRIMER.

#### OTHER MATERIALS

1. Previously installed polymer materials must be tested to determine the best method of preparation to achieve acceptable adhesion. Consult manufacturer for recommendation. Typically, methods will include solvent cleaning, abrading, and vacuuming surface.

2. Do not use in or around asphalt material due to poor long term adhesion performance.

#### PROCESSING

1. Precondition the containers to 70°F (21°C) for 24 hours before using.
2. The materials are supplied in ready-to-combine kits. USE THE ENTIRE KIT AND DO NOT DIVIDE. ONLY use WVCO approved sand as filler.
3. Check that primed surfaces are ready for application of POLYQuik® FastPatch before mixing contents of the KIT.
4. Make sure mixing station is a short distance from the application area and multiple kits can be mixed at the same time for performing multiple repairs.
5. Attach to a drill, a clean mixing blade 1/3 the diameter of mixing container.
6. 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. Concrete application surface must be dry and clean. Any water or oil present will cause foaming and poor adhesion.

3. Open the 5-gallon kit. Inside you will find two containers (1 gal – RESIN, 0.25 gallon – ISO), and sand. Do not divide the kit; each kit is made for one application.

4. Remove the two containers from the 5-gallon bucket while leaving the sand. Shake the 1-gallon RESIN container for 30-seconds and pour the contents into the 5-gallon bucket.

5. Mix the RESIN and sand together for 30 seconds or until the sand is completely wetted out by the resin.

6. Add the 0.25 gallon ISO to the bucket. Mix the material together for 30-seconds then scrape the sides of the bucket with a wooden straight edge and continue to mix for an additional 30 seconds. All of the Isocyanate (ISO) must be thoroughly incorporated in the resin before pouring into the spall. THE MATERIAL WILL 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.

NOTE: Material is workable for approximately 5-minutes at 70°F. Material will harden in 1-hour at 70°F. Colder temperatures will slow the cure. Warmer temperatures will speed the cure. Return to service time is typically 1-hour at 70°F.

Temp.	Pot Life	Set Time (min.)
101	4	45
72	6	75
52	8	120

#### CLEANING & MAINTENANCE

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

## HEALTH AND SAFETY

Willamette Valley Company recommends that you read and become familiar with the MSDS before using this product.

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Revision Date: November-2009