

**Technical
Data Sheet**



Willamette Valley Company

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Partnering through service,
innovation, and integrity

POLYQuik® FASTPATCH LV

Fast-setting Concrete Repair Product

DESCRIPTION

POLYQuik® FastPatch LV is a quick-setting ultra-low-viscosity product used to repair cracked or spalled concrete. It penetrates deeply into the concrete to provide a high strength repair with a return to service in 15 minutes. POLYQuik® FastPatch LV is compliant for use in areas that handle meat and poultry.

WHERE TO USE

- **Cracks & Spalls**—fill narrow cracks
- **Transitions**—use between two elevations
- **Bridge Decks**—sealing concrete decks
- **Damaged Concrete**—repair broken concrete

FEATURES AND BENEFITS

- **Ultra-low viscosity**—penetrates cracks
- **Fast-setting**—open to traffic in 15 minutes
- **Low temperature repair**—cures below freezing
- **High strength**—excellent bond strength

PACKAGING

Cartridges (600ml)
2 gallon (7.6 L) kits
10 gallon (37.9 L) kits

COLORS

Gray

YIELD

38 linear feet per gallon at ¼" wide by 2" deep
(3 linear m/liter at 6.4 mm x 50mm)

SHELF LIFE

1 year(s) 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

Solids, % , ASTM 3960	100
Viscosity, cps , ASTM D 4878, Part A / Part B	146 / 99
Potlife, min.	1
Gel time, min.	1 - 10 (see Cure Time chart)
Tack-free time, min.	3 - 20 (see Cure Time chart)
Hardness, Shore D , ASTM D 2240	78
Tensile, psi (MPa) , ASTM D 412	6,500 (45)
Elongation, % , ASTM D 412	6

Cure Time

Temperature, 50% RH	Gel time,, min.	Tack-free time,, min.
0°F (-18°C)	10	20
40° F (4° C)	5	10
70° F (21° C)	1	3

Processing Parameters

Ratio by volume	1 to 1
Application temp, ° F (° C)	0 to 90 (-18 to 32)
Meter equipment	Manually mix, cartridge, or plural component meter
Mixer dimensions, cartridge or meter	10 mm x 30 elements (with restrictor plate)

APPLICATION

SURFACE PREPARATION

CONCRETE

1. The surface being coated must be fully cured 28 days, structurally sound (200 psi or greater according to ASTM D 4541), clean (ASTM D 4258), and dry (less than 5%, ASTM E1907 and D4263).
2. Concrete cracks must be free of all loose aggregate, oil, grease, sealers, and other materials.
3. The surface must have low moisture-vapor transmission (less than 3 lb/24 hr/1,000 ft², RMA Test Method). Do not apply over concrete if vapor barrier is not present or unknown.

PROCESSING

1. For POLYQuik® FastPatch LV cartridges: load cartridges just prior to use. Use a restrictor plate between the cartridge and the 10mm x 30 element static mixer. Holding cartridge upright, fill mix tube by triggering.
2. Dispense into a waste container until uniform mixing occurs (2-3 trigger pulls), and keep tip pointed downward at all times. Move to application area and continuously dispense without stopping.
4. For POLYQuik® FastPatch LV bulk units: premix Part A and Part B separately before combining.

APPLICATION

1. POLYQuik® FastPatch LV can be pumped from pails using plural-component (1 to 1 ratio) equipment, or mixed by hand, squeegee, or cartridge dispensing gun. Contact your WVCO Representative for additional information on equipment.
2. For bulk mixing, combine equal amounts of each component (1 to 1 by volume) in a clean container and quickly mix (30-45 seconds) thoroughly until uniform color is achieved.
3. POLYQuik® FastPatch LV color will discolor or fade under UV light; however physical and performance properties will not be affected.

4. Proper application is the responsibility of the user. Field visits by WVCO Representative are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

HAIRLINE CRACKS

1. Apply POLYQuik® FastPatch LV into hairline cracks until completely filled. If desired, grind or cut the finished surface smooth. Allow material to set (see Cure Time chart) before grinding.

SPALLS AND WIDE CRACKS

1. For spalls or wide cracks, first prime with neat POLYQuik® FastPatch LV, then fill void with clean dry sand. Use grit sizes from 30-60.
2. For larger spalls, use 3/8" aggregate. Dispense mixed POLYQuik® FastPatch LV into spall or cracked area until the sand or aggregate filler is completely saturated. When material has reached a gel consistency (2 - 3 minutes), strike off and level with a trowel or scraper. If desired, grind or cut the finished surface smooth. Allow material to set (see Cure Time chart) before grinding. Cut with a sharp razor-blade cutter as soon as material has set, but is not completely hard.

FLOOD COAT APPLICATION

1. Apply material evenly over surface at 150 - 200 ft²/gallon, depending on porosity of concrete and the size and frequency of cracks. Spread material with squeegee or roller. For slip resistance, broadcast sand evenly over the surface at the rate of 12 - 20 lbs per 100 sq.ft. Use only high-quality (bagged or dried) silica-quartz aggregate for broadcast

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 reading and becoming familiar with the MSDS before using this product.

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