

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
- **Warehouse Floors**—resilient to heavy traffic
- **Damaged Concrete**—repair broken concrete
- **Anchoring**—secure bolts and rebar

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)
1 gallon (3.8 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 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
Compressive Strength , psi, ASTM D 695	6,800
Anchoring Strength , lbf, ASTM E 488, ½" threaded rod, 6" depth	10,101
Anchoring Strength , lbf, ASTM E 488, rebar, 6" depth	7,800

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

Adhesion Parameters, psi, ASTM D 7234

Substrate	Topcoat	Result
Concrete	FastPatch LV	835, 100% substrate failure
Concrete: Primed	FastPatch LV	861, 100% substrate failure
Carbon Steel	FastPatch LV	403, 90% adhesion failure
Wood	FastPatch LV	467, 100% substrate failure
FastPatch LV	Epoxy	864, 100% adhesion failure
FastPatch LV	P-670	0, No Adhesion
FastPatch LV	FastPatch GC	428, 100% cohesive failure

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. Saw cut around perimeter to 1/2" deep and follow ICRI Guideline No. 03730.
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: Shake for 1 minute and load cartridges just prior to use. Holding cartridge vertically, fill mix tube by triggering to remove air.
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.

NOTE: When dispensing, trigger the cartridge fast enough to obtain a reasonable product flow rate. However, be careful that you do not trigger too quickly, otherwise you will over-pressure the cartridge. 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 (20-30 seconds) until thoroughly until uniform color is achieved. Apply IMMEDIATELY.
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. Wipe excess material off concrete with a towel immediately after application. 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, prepare surface according to prior instructions, then fill void with clean dry sand. Use grit sizes from 30-60.
2. For larger spalls, use 3/8" aggregate completely to grade. 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, towel, or scraper only if needed. If desired, grind or cut the finished surface smooth or to add texture. Allow material to set (see Cure Time chart) before grinding.

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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