

Technical  
Data Sheet



Willamette Valley Company

www.wilvaco.com

800.333.9826

Partnering through service,  
innovation, and integrity

# POLYQuik® FASTPATCH MD/GC

## Flexible spall repair product

### DESCRIPTION

POLYQuik® FASTPATCH MD/GC 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 or drums for meter applied applications. POLYQuik® FASTPATCH MD/GC has excellent adhesion to concrete. Concrete repaired with POLYQuik® FastPatch MD/GC can be opened to traffic in an hour.

### WHERE TO USE

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

### 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 kits  
Drums

### COLORS

Gray

### YIELD

0.33 cubic feet per Kit  
2.0 sq. ft. per Kit at 2 inches (0.19 sq. m.at 51 mm)

### 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>VOC</b> , lbs/gal (g/L), ASTM D 2369	0
<b>Viscosity</b> , cps, ASTM D 4878, mixed	1,200 Kits 2,400 Drums
<b>Service temperature</b> , ° F (° C)	-30 to 170 (-34 to 77)
<b>Potlife</b> , min., 70° F (21° C)	5
<b>Tack-free time</b> , min., 70° F (21° C)	60
<b>Hardness</b> , Shore A, ASTM D 2240	85
<b>Concrete adhesion</b> , psi (MPa), ASTM D 4541	500 (3.4) 100% substrate (primed)

### Processing Parameters

<b>Ratio by volume</b>	4 to 1 (Resin to Iso)
<b>Application temp</b> , ° F (° C)	50 to 100 (10 to 37)
<b>Recommended Thickness</b>	Greater than 1"

## 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
7. For meter applied applications contact Willamette Valley Company Precision Technologies Division.

#### 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 gravel. Do not divide the kit; each kit is made for one application.
4. Remove all the contents from the 5-gallon bucket: the two containers and the gravel. Shake the 1-gallon RESIN container for 30-seconds and pour the contents into the 5-gallon bucket.
5. Add the ISO (1 quart) to the 5-gallon bucket and mix together for 20 seconds. Scrape the sides of the bucket with a wooden straight edge and continue to mix for an additional 20 seconds. All of the Isocyanate (ISO) must be thoroughly incorporated in the resin before adding it to 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.
6. Immediately add a small amount of the mixture to the pre-primed spall.
7. Add the supplied gravel to the pre-primed spall till the gravel is just under the level of the roadway surface.
8. Flood the pothole with the remaining resin/iso mixture. Any excess resin/iso mixture can be troweled into adjacent cracks.
9. Add the topping sand to the repair surface until no more will adhere.

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

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.

#### 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.

### WILLAMETTE VALLEY COMPANY

[www.wilvaco.com](http://www.wilvaco.com)  
[info@wilvaco.com](mailto:info@wilvaco.com)

#### DIVISIONS

##### WESTERN DIVISION

1075 Arrowsmith Street  
PO Box 2280  
Eugene, OR 97402  
Tel 541.484.9621  
[www.polyquik.com](http://www.polyquik.com)  
[www.wvcorailroad.com](http://www.wvcorailroad.com)

##### EASTERN DIVISION

6662 Marbut Road  
Lithonia, GA 30058  
Tel 888.878.9826

##### MIDWEST DIVISION

1549 Hwy 2  
Two Harbors, MN 55616  
Tel 218.834.3922

##### PRECISION TECHNOLOGIES DIVISION

675 McKinley Street  
Eugene, OR 97402  
Tel 541.484.2368  
[www.pre-tec.com](http://www.pre-tec.com)

##### SOUTHERN DIVISION

100 Dixie Mae Drive  
PO Box 4450  
Pineville, Louisiana 71361  
Tel 318.640.5077

#### SUBSIDIARIES

##### CANADIAN WILLAMETTE

325 Edworthy Way  
New Westminster BC V3L 5G4  
Tel. 800.663.4298

##### ECLECTIC PRODUCTS INC.

Corporate Office  
1075 Arrowsmith Street  
Eugene, OR 97402  
Tel 541.284.4667  
[www.eclecticproducts.com](http://www.eclecticproducts.com)

##### IDAHO MILL & GRAIN

445 North 430 West Hwy  
Po Box 188  
Malad City, Idaho 83252  
Tel 208.766.2206

##### TAPEL WILLAMETTE LTD. S.A.

Av. Estero La Posada 3625 Parque  
Industrial Coronel Coronel, Chile  
Tel 011.56.41.928.100  
[www.tapel.cl](http://www.tapel.cl)



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