

Technical  
Data Sheet



Willamette Valley Company

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Partnering through service,  
innovation, and integrity

# POLYQuik<sup>®</sup> HPU-Filler (Non-Sag)

## Cartridge-Applied Filler for Coatings and Substrates

### DESCRIPTION

POLYQuik<sup>®</sup> HPU-FILLER (Non-Sag) is a unique material that is easily applied with a handheld cartridge applicator, and cures in just a few minutes. It can be immediately topcoated after application, or abraded to the proper elevation just after one hour of curing. This product is specially formulated for filling or repairing both vertical and horizontal areas.

### WHERE TO USE

- **Fast-set Coating Repair**—damaged coatings or blister repair
- **Wood Defect & Joints**—splits or gaps between panels
- **Concrete**—voids, cracks, joints
- **Metal**—spaces or transitions

### FEATURES AND BENEFITS

- **Topcoat Immediately**—saves time
- **Cartridge Applied**—no hand-mixing and easy to apply
- **Sandable**—easy to finish and level
- **Vertical & Horizontal**—fill or repair any area

### PACKAGING

375 ml 50 ml cartridges

### COLORS

Black, Gray

### YIELD

50ml=4 lineal ft at 1/4" (1.2m at 6.3mm)

375ml=30 lineal ft at 1/4" (9m at 6.3mm)

### 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

Working time, min.	5
Ready for topcoat, sec	Immediately after application
Recoat time, hr.	12
Service temperature, ° F (° C)	-30 to 250 (-34 to 121)
Tensile, psi (MPa), ASTM D 412	1,700 (12)
Hardness, Shore D, ASTM D 2240	50
Abrasion resistance, mg lost; CS-17 wheel, 1 kg, 1k cycles, ASTM D 4060	52
Topcoat adhesion, psi (MPa), ASTM D 4541	350 (2.5)

### Processing Parameters

Ratio by volume	4 to 1
Application temp, ° F (° C)	35 to 110 (2 to 24)
Repair thickness, mils (mm)	0.03 to 0.25 (0.75 to 6)
Meter equipment	Manual dispenser
Mixer dimensions, 50 ml	5.4 mm x 16 elements
Mixer dimensions, 375 ml	10 mm x 24 elements

## APPLICATION

### SURFACE PREPARATION

Precondition material to 70° F (21° C) before dispensing material. Wear protective gloves, safety glasses, and clothing while handling HPU Filler. Apply the repair material when the substrate temperature is stable or dropping.

**CONCRETE:** Remove contaminants, dust, and other materials. Concrete must be clean, dry, and sound prior to applying POLYQuik® HPU-FILLER. Profile surface by grinding or abrasive blasting.

**STEEL:** Surface must be clean and free of oils, non-visible soluble salts, or other contaminants. Profile surface by grinding or abrasive blasting. Surface temperature must be 5° F (3° C) above the dew point to avoid application over damp surface.

**WOOD:** Store wood in a covered, dry location, and protect surface from damage and contamination. Remove any defects and sand area with 80-grit. Vacuum dust from surface and use compressed air to remove any remaining dust immediately prior to application of POLYQuik® HPU-FILLER.

**COATINGS:** Remove damaged area by cutting perimeter with a sharp knife. Abrade repair area with an angle-grinder fitted with a 2-inch 60-grit wheel to remove all loose material. Use the grinder to taper the outer perimeter of the repair area. Wipe repair area with Acetone or POLYQuik® Gun Cleaner to ensure a clean surface.

NOTE: POLYQuik® HPU-FILLER is only recommended for voids and cracks between 0.06-0.50" (1.5-12.5 mm).

### APPLICATION

1. Mask off repair area to prevent spreading material on surrounding area.
2. Prime exposed metal in the repair for maximum adhesion.
3. Holding cartridge upright, attach 10mm x 30- element mixer to cartridge and dispense POLYQuik® HPU-FILLER and fill mix tube while pointing it upright.
4. Dispense into a waste container until uniform mixing occurs (2-3 trigger pulls, or 25 ml for 375 ml cartridges and 6 ml for 50 ml cartridges).
5. Continuously dispense material over the area without stopping.
6. For horizontal repairs, dispensed directly on the repair area and spread evenly.
7. For vertical repairs, either dispense in a container and then manually apply over area, or dispense directly on area and spread evenly.
8. Promptly remove masking after spreading POLYQuik® HPU-FILLER.
9. After one hour, repair area can be leveled with a grinder and abrasive wheel.
10. Apply topcoat within 12 hours of repairing surface.
11. POLYQuik® HPU-FILLER will discolor or fade under UV light; however physical and performance properties will not be affected. Use aliphatic topcoat for color stability.
12. 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

### CLEANING & MAINTENANCE

- Use Acetone or POLYQuik® Gun Cleaner to clean cartridge dispenser or other parts.

## HEALTH AND SAFETY

Willamette Valley Company recommends reading and becoming familiar with the MSDS before using this product.

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