

**Technical
Data Sheet**



The Willamette Valley
Company LLC

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FastPatch Crack Filler

DESCRIPTION

FastPatch Crack Filler is a rapid setting, two-part polyurethane designed for large and small cracks in damaged concrete. Its viscosity was designed to be low enough to fill, penetrate, and extend the life of concrete without being too runny and wasteful. Its combination of fast set, high strength and low viscosity make it ideal for areas which must be brought to level.

WHERE TO USE

- Concrete – small and large cracks
- Warehouse floors - broken corners and edges
- Low temperature application – cures on cold surfaces

FEATURES AND BENEFITS

- Excellent concrete adhesion without primer
- Low viscosity – penetrates and levels
- Fast Setting – cures in minutes
- High shore D hardness
- No Odor, no VOC

PACKAGING

600 mL cartridge
250 mL universal cartridge

COLORS

Gray

STORAGE

Store and ship this product in a clean, dry, low-humidity, shaded or covered environment at 60 - 90° F (15 - 32° C).

SHELF LIFE

1 year when properly stored

TECHNICAL INFORMATION

Typical Properties

	Results	ASTM
VOC, %	0	D2369
Resin Viscosity, cPs (Pa-s),	4800 (4.8)	D4878
Iso Viscosity, cPs (Pa-s),	150 (0.2)	D4878
Service Temperature, °F (°C)	-40 to 185 (-40 to 85)	-
Gel time, min., 70° F (21° C)	1-2	D7997
Set Time, min., 70° F (21° C)	1-3*	D7997
Adhesion to Concrete, psi (MPa), unprimed	≥ 800 (5.5); Substrate failure	D7234
Ultimate Hardness, Shore D	80	D2240
Tensile Strength, psi (MPa)	5200 (35.9)	D412

*Set time will vary with temperature

Processing Parameters

Mix Ratio by Volume, Resin:Iso	1:1
Application Equipment	Pneumatic, battery-powered electric, or hand operated cartridge dispenser with 10x30 static mix tube

APPLICATION

SURFACE PREPARATION

CONCRETE

1. The concrete surface being repaired must be fully cured, structurally sound, clean and dry.
2. Concrete joints must be free of all foreign matter, including old joint filler, asphalt, tar, paint, wax, rust, membranes and curing/parting compounds. Contaminants present can result in poor adhesion. Apply product only if surface temperature is 5° F (3° C) above dew point to avoid application over damp surface.
3. Remove any surface contaminants before applying FastPatch CF by grinding, sweeping, wire brushing or another appropriate method.
4. FastPatch CF is intended for crack and spall repair. It is not for joint filling or over areas which may expand or contract significantly. Movement of the underlying concrete may cause cracking along the sides of the repair, or reflective cracks in a topcoat. Joints must be allowed freedom of movement; use FastPatch control joint filler (CJF) or expansion joint compound (EJC) family of products as directed.
5. FastPatch CF is not recommended for use on bare ground, dirt, grass or other non-structural surfaces. Contact your WVCO representative for recommendations, and before using on surfaces intended for immersion service.

PROCESSING

1. If possible, precondition material to 70°F (21°C) before use.
2. Do not dilute either resin or iso with any solvents. Contact WVCO for additional mixing recommendations.

APPLICATION

1. Before application, protect adjacent surfaces with tape or other kinds of protective barriers. Corner and edge repairs require damming the areas with tape to keep the material in place during cure.
2. Cracks in concrete may be deeper than they appear. The low viscosity of FastPatch CF may allow material to fall through the surface, leaving gaps or holes visible. These gaps may be repaired by pushing sand into the gap and dispensing FastPatch CF over it. Contact your WVCO representative for filler recommendations.
3. Avoid very shallow or wide applications. It is recommended that the crack to be filled is at least twice as deep as it is wide for optimal adhesion and performance.
4. Saw cuts and cracks wider than 1/8" (3 mm) may be filled with backer rod of appropriate diameter before dispensing FastPatch CF.
5. When recoating, abrade the surface of the previously installed FastPatch CF to ensure adhesion.
6. Contact your WVCO representative for recommendations on other repair scenarios.

CARTRIDGE APPLICATION

1. Use a 1-to-1 dispenser, pneumatic, hand operated, or battery-powered electric preferred (maximum of 40 psi or 276 kPa for pneumatic).
2. Remove the retaining nut and caps from the cartridge.
3. Keep the cartridge upright during assembly.
4. Place mix tube on cartridge nozzle, use retaining nut if necessary.
5. Keep cartridge upright and load into applicator gun.
6. Begin dispensing with cartridge upright to remove any trapped air.
7. Dispense initial material (20-40mL) outside the repair area and discard.
8. Dispense Remaining material onto the repair area. Avoid triggering on and off to keep the materials on ratio. If adjacent areas are uneven, fill to the lower height. Do not overfill. Change mix tubes if dispensing stops for 20 seconds.
9. Avoid mixing newly dispensed material with partially cured material, as this may cause discoloration.
10. Topping sand may be added to refusal while the material is still tacky. After material sets, excess may be sanded to give a smooth finish for topcoat.

HEALTH AND SAFETY

Before handling, you should become familiar with the Material Safety Data Sheet (MSDS) regarding the risks and safe use of this product. To obtain an MSDS please call 800-333-9826 or send an email to: msds@wilvaco.com

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