

Ratio by volume	1 to 1
Application temp, ° F (° C)	38 to 100 (10 to 37)
Application method	Pneumatic or Battery Operated Dispenser
Recommended repair size	Less than 9.0 ft ² (0.84m ²)

APPLICATION

SURFACE PREPARATION

CONCRETE

1. The concrete surface being repaired must be fully cured 28 days, structurally sound (200psi or greater according to ASTM D7234), clean (ASTM D4258), and dry (less than 5%, ASTM E1907).
2. Concrete surface must be dry and clean. Water or oil present can result in poor adhesion. Apply product only if surface temperature is 5° F (3° C) above the dew point to avoid application over damp surface.
3. Remove any contaminants before profiling surface.
4. It is recommended to profile surface according to ICRI Guide 03732 to a minimum of CSP 3 by abrasive blasting.
5. Saw cut spill area in shape of a square 1-3 inches (2.54-7.6 cm) deep, hammer (15 lb) spill area and remove debris. Recommended repair size is less than 9 ft² (0.84m²).
6. Use a minimum 120 PSI continuously dry compressed air to blow out loose debris, dirt and dust prior to applying product. Moist concrete can be torched dry. If moisture returns immediately after torching, stop and do not install FASTPATCH in this area.
7. Use a steel bristle brush to remove dirt on vertical and horizontal concrete surfaces and use compressed air to blow out prior to applying product.
8. As necessary, plug all gaps or joints surrounding the spill area with foam backer rod and choose a rod width that fits tightly in the area.
9. Priming all concrete surfaces is recommended. Prime with POLYPrime or POLYQuik® IK Primer. Contact WVCO for proper primer selection. Refer to primer TDS sheets for detailed instructions.
10. For spill areas, honor all joints or moving cracks in the spill area by saw-cutting after FASTPATCH has cured.

OTHER MATERIALS

1. Previously installed polymer materials must be tested to determine the best method of preparation to achieve acceptable adhesion. Consult manufacturer for recommendations. Typically, methods will include solvent cleaning, abrading, and vacuuming surface.
2. FASTPATCH is not typically recommended for use in asphaltic roadways. Exceptions do occur; contact Willamette Valley Co. for more details.
3. Avoid placing FASTPATCH on asphaltic materials, bare ground, dirt, grass or other non-structural surfaces.

GRAVEL INFORMATION

1. Use recommended FASTPATCH Gravel for applications. Gravel may be purchased from multiple sources. Suitability must be determined by the End User. Contact WVCO for recommended tests and evaluation procedures or for gravel approval. Gravel should be approximately 3/8" round rock that is washed and dried. Sourced gravel should have Mohs scale hardness: ≥ 5.
2. Gravel makes up 40-50% of the repair volume.
3. Typically 10-lbs (4.5-kg) of gravel is required per 750x750mL cartridge or 4-lbs (1.8-kg) per 300x300mL cartridge.
4. Gravel can be approved by WVCO. Contact WVCO for gravel testing and approval.

CARTRIDGE PROCESSING

1. Precondition the cartridge to 70°F (21°C) before use. Gravel must be dry and relatively free of dust.
2. Use a 32-element 13-mm diameter static mix tube with a pneumatic or battery powered gun. Hand pumping is not recommended due to the increased chances of poor mixing. Contact supplier for further instructions if hand pumping is required.
3. Cartridges and gravel can be heated up to 100°F (38°C) to speed cure at colder temperatures. It is recommended to heat all components when the temperature is below 50°F (10°C).
4. Check that primed surfaces are ready for application of FASTPATCH before applying mixed material.

APPLICATION

1. Use a 1-to-1 pneumatic or battery powered dispenser (maximum of 80 psi) and ensure that the pneumatic dispenser is the proper size.
2. Remove the retaining nut and caps from the cartridge.
3. Keep the cartridge upright during assembly.
4. Place mix-tube on cartridge nozzle and hand tighten the retaining nut over the mix-tube.
5. Keep cartridge upright and load into applicator gun.
6. While pointing cartridge upward, trigger handle and fill the mix tube to remove any air trapped in cartridges.
7. Point cartridge over waste container and dispense initial material (20-40mL) outside the repair area.
8. Dispense FASTPATCH on the walls and ENTIRE floor of spill area.
9. Place gravel in spill below surrounding surface by 0.25 inches (0.60 cm).
10. Insert mixing nozzle in the lowest elevation of the gravel and dispense until FASTPATCH floats on the gravel. Move the mixing tube to higher elevation while dispensing until the entire spill is flooded with FASTPATCH. Avoid triggering on and off during repair.
11. Use a plastic trowel to level FASTPATCH 0.25 inch (0.60 cm) below surrounding surface until it cures. Avoid overfilling spill area.
12. Add topping sand to refusal as necessary after the material gels.

NOTE: Application of cartridge must be performed continuously. Stopping before the cartridge is completely dispensed may result in the material setting up in the mix tube. Partially used cartridges may be reused by placing a new mix-tube on top of the cartridge.

TABLE 1: Effect of temperature on gel time and set time.

Temp. °F (°C)	Gel Time (min.)	Set Time (min.)
100 (37)	3	5
70 (21.1)	6	10
50 (10)	10	25

METER PROCESSING

Contact The Willamette Valley Co. representative for more details.

CLEANING & MAINTENANCE

Clean equipment with POLYQuik® Cleaner or acetone immediately after use. Cured material must be removed mechanically.

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.

DISCLAIMER OF WARRANTY

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