

Technical
Data Sheet



Willamette Valley Company
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Partnering through service,
innovation, and integrity

FastPatch DPR Kit
Distressed Pavement Repair

DESCRIPTION
FastPatch DPR is an easy-to-apply, long-lasting repair material for distressed pavement. It is supplied in complete, ready-to-use kits with a polymer blend of recycled and renewable materials. Each kit comes with two color options of Gray or Black, and topping sand to blend repair areas with the surrounding pavement. It can be applied in warm conditions, or in cooler conditions with the aid of FastPatch Kicker accelerator, to form a permanent repair that is quickly ready for traffic.

- WHERE TO USE**
- **Roadways**—spalls, wheel path areas, approaches and departures
 - **Parking Lots**—holes, walkways, broken areas
 - **Warehouses**—floors, spalls, loading areas
 - **Sidewalks**—trip hazards, walkways, “repair instead of replace”

- FEATURES AND BENEFITS**
- **Easy-to-Apply**—Mix with cordless drill, pour, & finish in minutes
 - **Lasting Repair**—Excellent adhesion & absorbs impact
 - **Open to Traffic Quickly**—Reduce traffic interruptions
 - **Recycled & Renewable Materials**—Sustainable sources
 - **Odorless**—100% solids & suitable for indoor applications
 - **Freeze-Thaw Resistant**—Long term repair for colder climates

PACKAGING
5-gallon kit

COLORS
Gray or Black

YIELD
5-gallon kit = 3.0 US gal (11 Liters)

SHELF LIFE
1 year when properly stored.

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

TECHNICAL INFORMATION

Typical Properties:

VOC, lbs/gal (g/L), ASTM D 2369	0
Viscosity, cps, ASTM D 4878, mixed	500
Service Temperature, ° F (° C)	-30 to 170 (-34 to 77)
Potlife, min., 70° F (21° C)	9 minutes
Set Time In Mass, 70° F (21° C)	12 minutes
Tack Free Time In Mass, 70° F (21° C)	30 minutes
Tensile Strength, ASTM D 412	1100 psi
Elongation, ASTM D 412	60%
Hardness, Shore A, ASTM D 2240	90 A
Adhesion, ASTM D 7234	800 psi, 100% substrate failure

Process Parameters:

Ratio by Volume	1 to 1 (resin to ISO)
Application Temp ° F (° C)	40 to 105 (4 to 40)
Application Method	Mechanical mix & pour
Recommended Thickness	> 1/4 in. (0.635 cm)
Recommended Repair Area	< 16 ft2 (1.49m2).

Set Time:

Temp. °F (°C)	Set Time (min.)	With Optional FastPatch Kicker (1 oz.)
110 (40)	7	3
75 (21)	30	18
40 (10)	80	40

APPLICATION

PAVEMENT PREPARATION

1. Pavement must be structurally sound (200psi or greater according to ASTM D7234), clean (ASTM D4258), and dry (less than 5%, ASTM E1907).
2. Moisture or oil in repair areas will result in poor adhesion. Apply product only if surface is dry and ambient temperature is 5° F (3° C) above dew point.
3. Remove all contaminants (e.g., oil, dust, sand, moisture) from surface for proper adhesion.
4. For maximum adhesion, profile surface according to ICRI Guide 03732, to a minimum of CSP 3, by abrasive blasting.
5. Shape spall perimeter into a square by saw cut, 1-3 inches (2.54-7.6 cm) deep. Hammer (15 lb) repair area and remove debris. Remove all loose rebar. Exposed non-moving rebar can remain. Maximum recommended repair size is less than 16 ft² (1.49m²).
6. Use a minimum 120 PSI continuously dry compressed air to blow out loose debris, dirt and dust prior to applying product. Moist pavement 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 pavement surfaces. Use a minimum 120 PSI continuously dry compressed air to blow out repair area, prior to applying product.
8. As necessary, plug all gaps or joints surrounding the repair area with foam.
9. Protect surrounding surfaces to the repair area with tape to prevent contamination.
10. Priming all surfaces with POLYPrime is recommended to strengthen bonding surface and maximize adhesion. Refer to primer TDS sheets for detailed instructions.
11. Honor all moving joints or moving cracks in the repair area by saw-cutting after FastPatch has cured or installing form board during application. Joints or cracks without movement do not require honoring. Contact manufacturer for more details.

OTHER MATERIALS

1. Previously installed polymer materials must be tested to determine best method of preparation for acceptable adhesion. Typically, methods will include solvent cleaning, abrading, and vacuuming surfaces.
2. Avoid installing FastPatch on bare ground, dirt, grass or other non-structural surfaces. Applications surfaces must be dry.

PROCESSING

1. Precondition Kits to 70°F (21°C) for 24 hours before use.
2. For colder temperature conditions, use FastPatch Kicker to shorten cure time. Kits can be heated up to 100°F (38°C) to speed cure at colder temperatures.

3. Store all components at 70°F (21°C) while preparing repair area and during application. Cold kits will not flow or level properly, and cure time will be slow.
4. Check that primed surfaces are ready for application before mixing and applying FastPatch.
5. Protect surfaces around the repair area with tape to prevent contamination of surrounding surface.
6. Place mixing station a short distance from the application area.
7. Wear gloves and safety glasses while mixing and applying material.
8. Attach a clean, "eggbeater-style" mixing paddle to a mechanical drill with a minimum of 500RPM.
9. Use entire kit and do not divide.

APPLICATION

1. Remove contents of FastPatch kit and leave aggregate in the bucket.
2. Open Part A package and pour over aggregate. Mix 3 minutes.
3. OPTION 1: For gray, mix Part B with aggregate mixture.
OPTION 2: For black, add BLACK pigment to aggregate mixture then add Part B.
OPTION 3: For speeding system, add FastPatch Kicker to aggregate mixture then add Part B. FastPatch Kicker is sold separately, and recommended in cold weather.
4. Mix for 2 minutes. Scrape sides and bottom while mixing. MATERIAL WILL NOT SET IF POORLY MIXED. Signs of poor mixing include dark swirls and tacky material that does not solidify.
5. Immediately pour in area. Level to surrounding surface.
6. After 10 minutes, sprinkle NATURAL or BLACK topping sand to match surrounding surfaces.
7. Material is typically ready for traffic in 1-hour at 70°F (21°C). Colder temperatures will slow cure. Warmer temperatures will speed cure.

SKID RESISTANCE: It is the responsibility of the Applicator to ensure product meets minimum skid resistance requirements. Refer to the agency or end-user friction management policy or specifications to determine minimum skid resistance and test method requirements. Aggregate (Sand, pumice, flint) can be added topically at the gel stage or Fastpatch can be ground, sanded or abraded to achieve any necessary skid resistant texture.

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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