

Technical
Data Sheet



Willamette Valley Company

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Partnering through service,
innovation, and integrity

POLYQuik[®] FASTPATCH NS

Vertical repair product for concrete

DESCRIPTION

FastPatch NS is a rigid two-component product designed to repair concrete. It is a non-sag, trowelable, solventless product that is mechanically mixed and hand applied. FastPatch NS has excellent adhesion to concrete and can be sanded to match the elevation of the surrounding repair area.

WHERE TO USE

- **Walls**—fill voids or patch defects
- **Pillars**—repair damaged areas
- **Sidewalks**—transitions or spalls
- **Curbs**—broken or damaged areas

FEATURES AND BENEFITS

- **Non-Sag**—ideal for vertical repairs
- **Trowelable**—easy to apply
- **Excellent Adhesion**—restore damaged areas
- **Durable**—absorbs impacts and stress

PACKAGING

- 2-gallon kit
- 5-gallon kit

COLORS

Gray

YIELD

- 2-gallon kit = 1 gal resin mixed (0.13ft³)
- 5-gallon kit = 2 gal resin mixed (0.27ft³)

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

VOC , lbs/gal (g/L), ASTM D 2369	0
Viscosity , cps, ASTM D 4878, mixed	20,000
Service temperature , ° F (° C)	-40 to 180 (-40 to 82)
Potlife , min., 70° F (21° C)	20
Tack-free time , min., 70° F (21° C)	180
Return to service , (hr) 70°F (21°C)	4 – 6
Hardness , Shore D, ASTM D 2240	70
Concrete adhesion , psi (MPa), ASTM D 4541	500 (3.4) 100% substrate
Compressive Strength , psi, ASTM D 695	4,050

Processing Parameters

Ratio by volume	2 to 1 (Resin to Iso)
Application temp , ° F (° C)	50 to 90 (10 to 32)
Recommended thickness inches (mm)	0.25 to 4 (6.4 to 100)

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. Use a minimum 150 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.
6. 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.
7. As necessary, plug all gaps or joints surrounding the spall area with foam backer rod and choose a rod width that fits tightly in the area.
8. Priming all concrete surfaces is recommended. Prime with POLYPrime.
9. For spall areas, honor all joints or moving cracks in the spall 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.

PROCESSING

1. Precondition the RESIN, ISO and SAND to 70°F (21°C) for 24 hours before use. Sand must be dry and relatively free of dust.
2. Resin, iso, and sand 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).
3. Use entire kit and do not divide.
4. Check that primed surfaces are ready for application of FASTPATCH before applying mixed material.

5. Ensure that the mixing station is a short distance from the application area. Multiple kits can be mixed at the same time when repairing large or multiple repairs.
6. For kit applications, attach a clean mixing blade with a width 1/3 the diameter of the mixing container to a 500RPM drill.
7. POTLIFE IS 20 MINUTES. Material will continue to thicken after initial mix. Wait for 10 minutes after initial mix if greater non-sag properties are required.

APPLICATION

1. Protect the surfaces around the application area to prevent contamination during the installation.
2. Open the kit. Inside are two containers (RESIN, ISO), and sand. Do not divide the kit; each kit is made for one application.
3. Remove all the containers leaving sand. If topping sand is required, remove a quart of sand from the bucket and set aside. Check that primed surfaces are ready for application of FASTPATCH before applying mixed material.
4. Shake the RESIN container for 30-seconds and pour the contents into the sand filled bucket. Mix the resin and sand till uniform.
5. Add the ISO to the bucket and mix for 40 seconds. Material will thicken at this stage. Scrape the SIDES and BOTTOM of the bucket with a wooden straight edge and continue to mix for an additional 40 seconds or until uniform. All of the Isocyanate (ISO) must be thoroughly incorporated in the resin before adding it to the defect. 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. Use a plastic trowel to level FASTPATCH. Do not overwork material and avoid feathering material. Thin areas less than 1/4 " (6.4 mm) may bubble. Sand or grind to remove any bubbled areas.
7. Add the topping sand as necessary when the material has gelled. Add topping sand to refusal.

CLEANING & MAINTENANCE

- Use Acetone or POLYQuik® Cleaner to clean mixing blade and other equipment. Cured material must be removed mechanically.

HEALTH AND SAFETY

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

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