

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
- **Fast Cure**—quick return-to-service

PACKAGING

2 gallon (7.5L) kits

COLORS

Gray

YIELD

3.2 sq. ft. gallon at 0.50 inches
0.08 sq. m. per liter at 25 mm

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

VOC , lbs/gal (g/L), ASTM D 2369	0
Viscosity , cps, ASTM D 4878, mixed	1,200 Kits 2,400 Drums
Service temperature , ° F (° C)	-40 to 180 (-40 to 82)
Potlife , min., 70° F (21° C)	5
Tack-free time , min., 70° F (21° C)	60
Hardness , Shore D, ASTM D 2240	70
Concrete adhesion , psi (MPa), ASTM D 4541	500 (3.4) 100% substrate

Processing Parameters

Ratio by volume	2 to 1 (Resin to Iso)
Application temp , ° F (° C)	50 to 90 (10 to 32)
Recommended thick. , mils (mm)	40 to 1000 (1 to 25)

APPLICATION

SURFACE PREPARATION

CONCRETE:

1. The surface being repaired must be fully cured 28 days, structurally sound (200 psi or greater according to ASTM D 4541), clean (ASTM D 4258), and dry (less than 5%, ASTM E 1907 and D 4263).
2. Remove contaminants, dust, and other materials from surface. Concrete must be clean, dry, and sound prior to applying FastPatch NS. Remove any contaminants before profiling surface.
3. Profile surface according to ICRI Guide 03732 to a minimum of CSP 3 by abrasive blasting or hydroblasting.
3. Use compressed air to blow out loose debris, dirt and dust prior to applying FastPatch NS.
4. For applying over cured FastPatch NS, follow the above procedure.

PROCESSING

1. Precondition material to 70° F (21° C) before dispensing material. Wear protective gloves, safety glasses, and clothing while handling FastPatch NS. Apply the repair material when the substrate temperature is stable or dropping.
2. Inside the FastPatch NS package are two containers (1 quart of RESIN, 1 pint of ISO). Remove both containers and leave the sand in the bucket. Do not divide the kit; each kit is made for one application.
3. Shake the 1-quart resin jug for 30 seconds and pour into the sand filled 2-gallon bucket.
4. Mix RESIN and sand with a drill and mix blade for 20 seconds.

5. Add the 1 pint ISO to the RESIN-SAND mixture and mix for 20 seconds. Quickly scrape the mixture from the sides of the bucket and mix until uniform in color and viscosity (usually about 20-30 seconds).
6. NOTE: POTLIFE IS ONLY 5 MINUTES. USE IMMEDIATELY AFTER MIXING.
7. NOTE: All of the ISO must be thoroughly incorporated in the resin before adding to the defect. THE MATERIAL WILL NOT CURE IF IT IS IMPROPERLY MIXED. Signs of poor mixing include soft material, dark swirls, and foaming.

APPLICATION

1. Apply the material with a trowel and level to surrounding surfaces. After product has become hard, a mechanical sander can be used to level or remove excess material.
2. FastPatch NS will discolor or fade under UV light; however physical and performance properties will not be affected. Use aliphatic topcoat for color stability.
3. 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® Cleaner to clean mixing blade and other equipment.

HEALTH AND SAFETY

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

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