

VFI®-5055 75 D CONCRETE PATCH REPAIR

VFI-5055 75 D Concrete Patch Repair is a fast-setting, low-viscosity polyurethane repair material for filling non-moving cracks, patching spalled areas, and resurfacing broken concrete. It's a very versatile product that can be bulk mixed and applied in freezing temperatures for year-round repairs. When combined with aggregate, it provides a tough, durable patch for any porous concrete surface. VFI-5055's strength and high rigidity result in a material that fully penetrates cracks and damages to become a permanent repair.

- Patching compound repairs cracks, chips, spalling, etc.
- Fast-setting for a return to service in 10 minutes
- Permanent repair with excellent strength and durability
- Versatile application in exceedingly cold temperatures
- Ultra-low viscosity to fill extremely fine cracks
- Can be mixed with sand or aggregate for larger repairs

PHYSICAL PROPERTIES	TEST RESULTS
Hardness Shore D	75
Tensile Strength	3,444 psi
Elongation	4%
Tear Strength	172 pli
Elastic Modulus	38,639
Compressive Strength	8,000 psi
Impact Resistance Unnotched Izod	13.41 ft/lb per inch
Slant Shear Bond Test	1,420 psi
Flexural Strength/Modulus	8,091 psi/175,123 psi

LIQUID PROPERTIES	TEST RESULTS
Solids by Volume	100%
Liquid Density A Side	9.51 lbs/gal
Liquid Density B Side	8.52 lbs/gal
Mixed Liquid Density	9.00 lbs/gal
Specific Gravity A Side	1.142 g/mL
Specific Gravity B Side	1.023 g/mL
Mixed Specific Gravity	1.08 g/mL
Ratio by Volume (A:B)	1A:1B
Viscosity A Side	65 cps
Viscosity B Side	49 cps
Pot Life	90 sec
Place Into Service	10 min

MANUFACTURER OF HIGH PERFORMANCE POLYMERS

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VFI®-5011 80 A EXPANSION JOINT FILLER

SURFACE PREPARATION

The repair area should be clean and free of oils, dirt, films, and other contaminants that could affect adhesion. Hairline cracks must be saw-cut. Open up the crack to a minimum of ¼" wide by ¼" deep using a dry diamond blade. Remove all dust by vacuum or compressed air from the cut-out area. All areas receiving VFI-5055 should be dry before application. Concrete must be aged at least 28 days before the patch repair is used. If the area needing repair is damp or wet, it must be primed and allowed to set for 10-60 minutes, depending on temperature.

MIXING

Before combining the A (Iso) and B (Poly) materials, premix the B side. Measure the B side before pouring it into the measured A side material and mix together until uniform. Transfer the material into a clean mixing container and mix once more before use. The product must be thoroughly mixed and used before the end of the pot life. Mix times may vary depending on the volume of material used and the mixing method. When in use, the temperature should be between 50°F - 100°F with the material at a minimum of 65°F. Higher temperatures and larger quantities will shorten the pot life.

APPLICATION REQUIREMENTS

Mix VFI-5055 with dry industrial quartz sand or a similar filler when repairing larger areas or resurfacing broken concrete. The filler should be free of moisture and have an average grit size between 30 and 60. Coverage will vary based on the size of the aggregate used. Treat cracks and spalled areas with the patch material, then fill with sand. For deep repairs, build up in layers until it is level with the concrete. Finish the repair by running a trowel across the material until smooth. Do not overwork the material, or it may cause the repair to look rough. The repair will be traffic ready in 10 minutes at room temperature.

CLEANUP

Application equipment, tools, and surfaces can be cleaned with xylene or MEK before the material cures. If the material has cured, use a grinder to remove it.

STORAGE/SHELF LIFE

The material should be stored in a clean, dry building between 60°F - 90°F. The shelf life is 12 months from the date of manufacture. Opened containers can be resealed with a nitrogen purge immediately after use to try and prolong the material's shelf life.

PRECAUTIONS

VFI-5055 is not a joint filling material and is not intended for use where substrate movement is required. It is not UV color stable and has no long-term UV testing. The material contains isocyanate, which can irritate the skin and is toxic if inhaled as particulate matter. Avoid prolonged breathing of vapors or repeated skin contact. Use only with adequate ventilation. Keep the material away from moisture to prevent it from bubbling or foaming. Wet or damp areas must be primed and allowed to set before repair. Do not thin or add foreign material to this product. See Safety Data Sheet for complete safety information.