

VFI®-5075 50 A POLYUREA JOINT FILLER

VFI-5075 50 A Polyurea Joint Filler is a softer, two-component, self-leveling polyurea material designed to seal joints and pads in industrial applications with light traffic. At a lower hardness, it is less susceptible to splitting and separation, which can occur when joints in floors are filled before the concrete shrinks. With strong elastomeric properties, the joint filler stays sealed during movement from expansion and contraction. A longer cure time allows for easier trimming and cutting of overfill material to achieve a flush appearance with the concrete. VFI-5075 is machine dispensed to fill cracks, damaged joints, or new construction joints on horizontal concrete surfaces.

- Flexible material that allows for 20-25% movement of installed joint width
- Strong enough to protect concrete edges from spalling under light loads
- Improved adhesion properties and excellent elongation
- 1:1 mix ratio by volume for easy application
- Prevents water, dirt, and other contaminants from causing deterioration

PHYSICAL PROPERTIES

TEST RESULTS

Hardness Shore A	50 ± 2
Tensile Strength	500 psi
Elongation	700%
Tear Strength	115 pli
Elastic Modulus	160 psi

LIQUID PROPERTIES

TEST RESULTS

Solids by Volume	100%
Liquid Density A Side	8.7 lbs/gal
Liquid Density B Side	8.7 lbs/gal
Ratio by Volume (A:B)	1A:1B
Viscosity A Side	450 cps
Viscosity B Side	450 cps
Gel Time	55 sec
Tack Free	20 min
Place Into Service	7 hrs foot/24 hrs heavy

MANUFACTURER OF HIGH PERFORMANCE POLYMERS

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EQUIPMENT

Use a low-pressure, plural component machine pump. A .375 x 13" static mixer is recommended for the best results.

SURFACE PREPARATION

Joint filler separation may occur if applied too soon after the concrete has been poured and hasn't had time to shrink and cure. New concrete slabs should be allowed to cure for at least 28 days before joint filler application. Remove all debris, oils, loose particles, and other contaminants that may break the bond of the joint filler. Clean concrete and joints where necessary by grinding, sandblasting, or wire brushing. For the best results, re-cut the joints with a dry diamond blade. Joints should be vacuumed after being sawed.

All surfaces should be structurally sound. Clean out previously filled joints and remove old sealing material. Priming may be required if the old material is not saw-cut from the joint.

MIXING

The temperature should be between 50°F - 100°F during application, and the material temperature should be at least 65°F. Higher temperatures will shorten the material's pot life. Make sure to thoroughly mix the B side (Poly) before application. Mix times may vary depending on volume and mixing method.

APPLICATION REQUIREMENTS

The coverage rate will depend on the depth and width of the joints. Before filling the joint, install closed-cell backer rods at a depth of 1-1 ¼", avoiding 3-sided adhesion. When using a backer rod, the joint filler will cover approximately 138 linear feet per gallon for ¼" wide by ½" deep control joints. If a backer rod is not used, fill the joints to full depth. The material should be level with the concrete and slightly overfilled (about 5%). VFI-5075 will need approximately 20 minutes to set. Use a sharp 8" wall scraper or razor to shave excess material from the slab for a flush appearance. A smooth and chatter-free cut can be achieved using lightweight oil on the blade. Allow the joint filler to cure for at least 7 hours before opening it up to light foot traffic and 24 hours for heavy foot traffic.

CLEANUP

The recommended cleanup solvent for VFI-5075 is xylene or MEK. Wipe excess material from concrete and tools before it cures. If it does cure, use a sharp wall scraper 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

The A side material contains isocyanate, which may irritate the skin and is toxic if inhaled as particulate matter. Avoid prolonged breathing of vapors and repeated skin contact. Use only with adequate ventilation. It is not intended for exterior or interior joints subject to extreme movement beyond 25%. Do not apply to slopes greater than 3%, as this product was designed for horizontal application. As an aromatic polyurea, it is not UV color stable, and discoloration of the material may occur when exposed to UV light. Do not thin or add foreign material to the product. See Safety Data Sheet for complete safety information.

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