

Floor-Fix



Product description

Azo-Grout™ 125 Floor-Fix™ is a low-viscosity, two-part polyurethane system suitable for use in sealing fine cracks in concrete. Hereafter referred to as Floor-Fix, the low-viscosity allows the material to seep into cracks and bond tightly to the concrete. Sand can be mixed with the Floor-Fix to repair larger cracks and spalled “pop out” concrete floors. The advantage of Floor-Fix is its fast set time which allows minimum down time in the immediate repair area. The product is available in cartridges, one gallon cans and five gallon pails.

Application range

Floor-Fix is used for floor repair in the following applications:

- Repair of hairline cracks
- Repair of larger cracks using silica sand
- Repair of spalls and blowouts in concrete floors

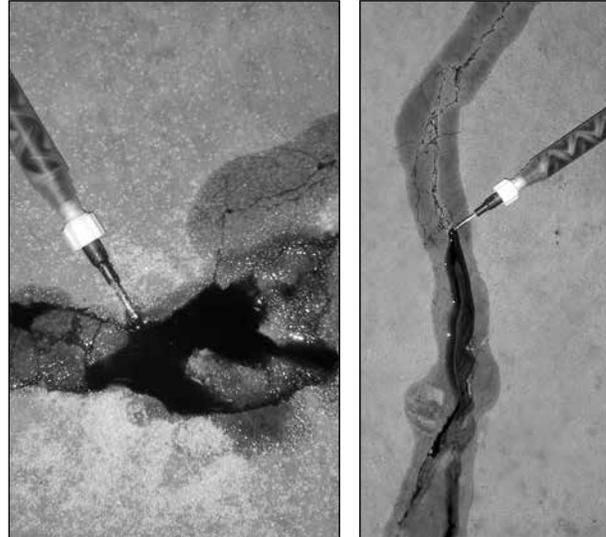


Table 1: Physical properties of uncured materials

	Floor Fix Part A	Floor Fix Part B	Measurement	Test method
Color	amber	black		visual
Specific gravity	1.127	1.025		ASTM D891
Viscosity at 77°F (25°C)	45 – 65	70 – 90	centipoise	ASTM D2196
Storage stability	12	12	months	
Toxicity	see SDS	see SDS		
Hazard class	not regulated	not regulated		
Flash point	406°F (208°C)	262°F (128°C)	degrees Fahrenheit (Celsius)	

Table 2: Processing characteristics

	Floor Fix Part A	Floor Fix Part B	Measurement
Mix ratio	100	100	by volume
Mix ratio	112	100	by weight
Gel time at 75° (24°C) - 77°F (25°C)	2		minutes
Application temp	30°F (-1°C) - 115°F (46°C)		degrees Fahrenheit (Celsius)

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Table 3: Physical properties of cured materials

	Value	Measurement	Test method
Density	68.7 (1.1)	lbs/ft ³ (g/cc)	
Hardness after 24 hrs.	70	Shore D	ASTM D2240
Tensile strength	4,150	psi	ASTM D638
Elongation	5	percent	ASTM D638
Die C tear	243	pli	ASTM D624
Heat distortion		degrees Fahrenheit (Celsius)	ASTM D648
Izod impact		lbs/ft ³ (g/cc)	ASTM D258
Bond	> 10,000	lbs	ASTM C882

Site preparation

Clean cracks of dust, dirt, oils, and other debris. Ensure that the concrete is dry to avoid any foaming and expansion of the material. A diamond blade may be used to prepare cracks and create a clean surface for bonding. A wire brush or twisted wire wheel may be used to remove any loose concrete or dirt.

Application method

Floor-Fix can be injected directly into cracks using two component cartridges. Allow it to seep into the crack and top-off as needed. Keep material flowing through the mix tube to avoid curing in the tube. The material will be tack free in less than 20 minutes at 75°-77 °F (23°-25°C). Excess material may be removed by scraping with a blade. If necessary, the repaired surface may be ground smooth two hours after application.

For larger cracks measure equal volumes of each component into a clean, dry container, and mix together with a metal knife or spatula. Mix for about 15-20 seconds then pour into the crack. Only mix as much material as can be worked within one minute. Silica sand can be poured into the crack to thicken material. Cracks can be topped-off with additional mixes several times.

For spall repairs, prepare equal volumes Floor-Fix part A and part B. Add the part B into the sand and mix using a metal knife or spatula to thoroughly wet the sand. Add part A to the mixture and continue mixing for 10-15 seconds. Transfer the Floor-Fix sand mixture to the repair area and trowel smooth. Floor-Fix can be “feathered” into an existing concrete surface. Repairs can also be ground smooth a few hours after application if necessary.



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Table 4: Test results

Post cure time	Compressive strength
30 minutes	4,500 psi
60 minutes	4,900 psi

Note: Testing at 10% deformation

Precautions

All equipment should be cleaned quickly. Floor-Fix liquids can be cleaned by rinsing with a solvent such as Azo-Purge MP2™.

As with all chemicals care should be taken in handling Floor-Fix. Read the safety data sheet prior to use, and use the appropriate personal protective equipment (PPE) when handling. Adequate ventilation is recommended.

The following safety measures are recommended:

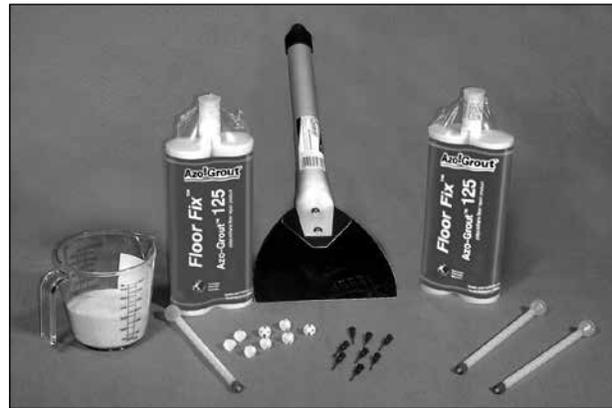
- Wear protective gloves, and clothing.
- Do not eat, drink or smoke while in active contact with these materials.
- Avoid skin contact.
- Wash hands thoroughly with soap and cool water.
- Anyone experiencing difficulty breathing when working with these materials or showing an allergic reaction should seek fresh air immediately. Consult a physician if symptoms persist.

Material storage

Open containers of material should be used quickly to avoid moisture contamination. Reseal unused material tightly to minimize water exposure. All spills of Floor-Fix should be cleaned up by absorbing the grout into an inert material and transferring it to an open top container. Allow the Floor-Fix to react completely before disposing. Dispose of waste material in accordance with state and local regulations.

Packaging

Floor-Fix is available in dual 300 cc cartridges that will fill 36.61 cubic inches of crack, one gallon cans that will fill 431 cubic inches, and five gallon pails that will fill 2,361 cubic inches. Addition of sand to the mix will extend the yield of the Floor-Fix.



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