

LOCTITE®

Loctite Industrial
Maintenance Solutions

Floor & Concrete Repair Products

- **Fixmaster® Floor Fill**
- **Fixmaster® Magna-Crete®**
- **Fixmaster® High Performance Quartz**
- **Fixmaster® Flex 80 Liquid Sealant**
- **Fixmaster® Urethane Sealant**



A  Company

Loctite® Fixmaster® flooring products are specialty repair materials that fill or level industrial surfaces. A cost-effective, high-performance alternative to conventional flooring systems, these epoxies are non-shrinking and have good chemical and corrosion resistance, and high compression strength.

General Concrete Repair

Fixmaster® Floor Fill

Floor Fill is a three-component, self-leveling, non-shrinking epoxy floor repair system. 100% solids epoxy based system for repairing holes in floors, spalled areas, ramps, stairs, cracks in floors, and for use in grouting applications. Once cured it is stronger than concrete, bonds to almost any clean substrate, and provides corrosion and chemical resistance. It forms strong bonds to steel, concrete, and to itself.

Advantages:

- Solids epoxy system – non-shrinking
- Chemical resistant
- Fast and easy to mix and use – reduces downtime
- Outperforms concrete
- Self leveling

Typical repair applications include:

- Cracks and holes in floors
- Resurfacing ramps and stairs
- Spalled areas



For repairs using Floor Fill, simply square off the repair area and chisel out the loose and damaged area; pre-mix the resin; while mixing, add the aggregate; pour into repair area.

Fixmaster® Magna-Crete®

Magna-Crete is a two-component magnesium phosphate cement. It sets rapidly and has a very high early strength making it ideal for many road and aircraft run-way repairs, which can typically be driven over after about 45 minutes. Unlike concrete, it bonds to new and old concrete as well as most construction materials including wood, glass, and steel. Because Magna-Crete does not use a water additive, this repair system can be applied at temperatures as low as -15°F.

Advantages:

- Fast setting
- Bonds to most construction materials, including concrete
- Applies at virtually any temperature, even to damp surfaces
- Ready for light service in as little as 30 minutes
- Cures to a non-porous, shrink and crack-resistant finish
- Develops crushing strength of 2,500 – 3,000 psi/17 – 21 mpa after two hours
- Resists chemicals including caustics, salt solutions, airport fluids, and all auto spills
- Resistant to bacteria and ultraviolet light

Typical applications include:

- Repairing and restoring floors, ramps, and loading docks
- Rail grouting
- Leveling and setting machinery
- Anchoring bolts and hand rails



Area is formed out and product is troweled in.

Flexible Crack Filling

Fixmaster® Flex 80 Liquid

Flex 80 Liquid is a two-component, pourable urethane compound for casting rubber-like parts that are subjected to impact, abrasion, and corrosion.

Advantages:

- Resists abrasion and impact
- Easy to mix and use
- Combines properties of rubber and urethane
- Lifetime flexibility
- Resists oil, grease, and water and remains resilient

Typical applications include:

- Vibration and isolation pads
- Repairing rubber or urethane parts
- Forming expansion joints



1. Expansion joint and crack to be filled.



2. Joint and crack are squared-off and opened up.



3. Area is taped off and product is poured into joint.

Urethane Sealant

This product is a single-component, moisture curing, caulking gun grade urethane with outstanding flexibility, weatherability, and adhesion properties. This non-sagging Urethane Sealant cures to a flexible rubber that forms strong bonds to properly prepared concrete, masonry, glass, plastics, wood, aluminum, and other metals. Cured material has excellent adhesion, cohesion, and elasticity, and resists deterioration from weather, stress, movement, water, and many chemicals.

Advantages:

- Lifelong flexibility
- Paintable
- Excellent weatherability
- Water resistant

Typical applications include:

- Forming expansion joints
- Installing skylights, roof flashing
- Sealing ductwork and gutters
- Filling concrete cracks
- Curtain wall construction



Urethane Sealant being used to seal a crack.



Chemical Resistance

Fixmaster® High Performance Quartz (HPQ)

This product is a two-component, quartz filled epoxy system designed to protect old or new concrete from chemical attack. HPQ provides a surface resistant to concentrated acids, alkalis, and solvents. A two-component epoxy primer for maximum adhesion is included in this kit. Areas damaged by chemical attack may be resurfaced with HPQ once the concrete has been adequately reconditioned to a natural, clean state. It is an easily applied, trowelable system that should be applied at a minimum 1/4" build in order to provide maximum chemical resistance.

Advantages:

- Chemical resistant
- Non-shrinking
- Bonds to concrete

Typical applications include:

- Installation over concrete in chemical containment areas
- Repairing spalled areas, holes, and cracks in floors
- Resurfacing ramps, stairs, and chemical spill areas

Product	Item Number	Container	Color	Working Time (minutes @ 77°F)	Functional Cure (hours @ 77°F)	Service Temperature Range	Compressive Strength (PSI)	Elongation	Coverage
Floor Fill	99361 99365	10 lb. Kit 40 lb. Kit	Grey	40-60	24	-20 to +225°F (-29° to +107°C)	15,000	NA	532 in ³ per 40 lb kit 8.7 dm ³ per 40 lb kit
Magna-Crete®	95551 95555	1 gal. Kit 5 gal. Kit	Grey	9-15	30 Minutes	-15° to +2,000°F (-26° to +1,093°C)	up to 13,000	NA	21.6 ft ² @ 1/4" per 45 lb kit 2 m ² @ 6 mm per 45 lb kit
Magna-Crete Activator®	36334	1 gal. Bottle	Green	-	-	-	-	-	-
High Performance Quartz	96495	42 lb. Kit	Grey	45	24	-20 to +150°F (-29° to +65°C)	12,000	NA	15 ft ² @ 1/4" per 45 lb kit 1.4 m ² @ 6 mm per 42 lb kit
Flex 80 Liquid	97413 97412	1 lb. Kit 6 lb. Kit	Black	20	8	-20° to 180°F (-29° to 82°C)	NA	350%	27 in ³ per 1 lb 442 cm ³ per 1 lb
Urethane Sealant	39916 36132	10.2 oz cartdg. 10.2 oz cartdg.	Limestone Black	NA	3 days*	-40° to +180°F (-40° to +82°C)	NA	1000%	25 linear feet 7.6 linear meters

* With a typical joint of 1/2" wide by 1/4" deep, Urethane Sealant will skin overnight or within 24 hours. Functional cure is 3 days and approximate full cure in a week.

Product	Overhead & Vertical Applications	Expansion Joints	Spalled Concrete	Re-pointing Concrete	Filling Cracks	Chemical Resistance	Cold Weather Applications	Concrete Coating	Anchoring
Floor Fill			•			•			•
Magna-Crete®	•		•	•			•		•
High Performance Quartz (HPQ)			•			•		•	
Flex 80 Liquid		•			•				
Urethane Sealant	•	•			•				



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