



PETRA BLOCK FILL

advanced coating systems



HIGH PERFORMANCE EPOXY MASTIC LEVELING MATERIAL

GENERAL PRODUCT DESCRIPTION

Petra Block Fill is an advanced high performance, two component epoxy mastic and leveling material. Petra Block Fill is a high build product that resists sagging on vertical surfaces and provides a smoother surface for overcoating. It is generally applied in thickness between 1/16" and 1/8" with or without silica. Petra Block Fill is formulated to make it one of the best choices as an epoxy block filler and patching compound. The product is available in a translucent color. The material covers 1600 sq ft per gallon per mil. Advantages:

- Self-priming
- 100% Solids , V.O.C. Compliant
- Vertical and Horizontal application
- Seamless system
- Essentially odorless
- Four times harder than standard concrete
- Chemical resistant

PRODUCT DATA

Volumetric Ratio:	2 to 1
Solids:	100%
Application Temperature:	65-90°F and 5° above the dew point
Thinning:	Not required
Pot Life:	15-20 minutes
Working time:	15-20 minutes
Cure Time:	8 hours @ 75°F
Critical recoat time:	24 hours
Shelf life:	12 months
USDA Food and Beverage:	Meets requirements

PACKAGING

Petra Block Fill is available in two different kit sizes:

	Part A	Part B
3 Gallon Kit	2 gal.	1 gal.
15 Gallon Kit	10 gal.	5 gal.

APPLICATIONS

- Cinder block walls
- Bug holes and divots
- Concrete cracks
- Production Areas
- Trench and sumps
- Food Preparation
- Chemical Flooring
- Waste Water Treatment
- Loading Docks
- Secondary Containment

CONCRETE PREPARATION

Before the coating is applied, the concrete must be:

- Clean-- Contaminants removed
- Profiled-- Surface etched
- Sound--Cracks repaired

Mechanical preparation is the preferred method of preparing concrete for coating application. Shot-blasting, diamond grinding, scarifying, and scabbling are all acceptable methods. The concrete profile should be approximately 40-60 grit sandpaper after preparation.

MIXING

The Mix Ratio of Petra Block Fill is 2 to 1. That is, two parts of A - resin, to one part of B - hardener. Mix the following with a drill and jiffy mixer.

1. Place one gallon of part A in a five gallon mixing bucket.
2. Add two quarts of part B and mix for one minute. Be sure to uniformly mix all of the Part A and B together by scraping the sides and blending in all of the material.
3. Apply the material immediately as it will have a shorter pot life in mass.

PHYSICAL PROPERTIES

PROPERTY	VALUE	REFERENCE
Compressive Strength	11,500 psi	ASTM C 579
Flexural Strength	4,100 psi	ASTM D 790
Tensile Strength	2,100 psi	ASTM D 307
Bond to Concrete	350 psi concrete fails at this point	ASTM D 4541
Taber Abrasion	Loss/1000 Cycles = 25 mg	ASTM D 4060 CS 17 Wheels
Water Absorption	.10% maximum	ASTM D 413
Linear Shrinkage	.01% maximum	ASTM C 531
Flammability	1.2 cm/min	ASTM D 635
Impact Resistance	16 ft. lb. - no failure	Mil-D-3134H
Coefficient of Friction	6 minimum	ASTM D 2047
Hardness, Shore D	84	ASTM D 2240
Porosity on unglazed finish	00	NACE Stand TM-01-74

APPLICATION PROCESS

Apply with flat squeegee, trowel, putty knife, or rubber float. Press firmly into cracks and cavities with the selected tool. If required, sand or grind smooth after the material has cured.

OPTIONAL GLAZE COAT

1. XtraKote TC or XtraKote LS for optimal color stability, may be used as a glaze coat.
2. Mix three gallons of resin at a time using above mixing instructions.
3. Immediately pour out on unglazed surface in a ribbon, walking and pouring at the same time until bucket is empty.
4. Using a window squeegee on a pole, pull resin tightly and uniformly over surface.
5. Using a 3/8" paint roller with phenolic core, roll glaze coat up and back.
6. Lastly, backroll from left to right (perpendicular to first).

CLEANUP

Petra Block Fill while in a liquid state may be cleaned up with water and degreaser. Otherwise a strong solvent may be required while Petra Block Fill is setting up.

WARRANTY

Petra Industrial Polymers products are warranted for one year after date of application. Please refer to the Petra Industrial Polymer's Limited Material Warranty for additional clarification.

SAFETY

Consult Petra Block Fill material safety data sheet. Avoid Petra Block Fill contact with skin. Some individuals may be allergic to epoxy.