



PRODUCT TECHNICAL DATA SHEET

EPOXY GROUT FAST

Advanced Coating Systems

HIGH PERFORMANCE, FAST CURE EPOXY MORTAR

GENERAL PRODUCT DESCRIPTION

Epoxy Grout Fast is a two-component, 100% solids epoxy. It is ideal for repairing larger eroded holes and cracks in concrete. Epoxy Grout Fast takes over where the Epoxy Patch Kit leaves off for small repairs. Because of its extreme physical properties and high load-bearing strength, it is an ideal base for other ONYX Build Systems. Epoxy Grout Fast is also the right choice when sloping a floor. It can be applied from 1/16" to several feet thick by extending it with silica and selected aggregate, such as pea gravel.

ADVANTAGES

- 100% Solids, V.o.c. = 0
- Essentially Odorless
- 4 Times Harder than Standard Concrete
- Withstands Heavy Forklift Traffic
- Chemical Resistant
- Can be Applied Over 10 Day Old Concrete
- Rapid Return to Service

PRODUCT DATA

Volumetric Ratio:	6 to 1
Solids:	100 %
V.o.c.	0 G/L - 0.0 Lb. / Gal.
Approximate Coverage:	1600 Sq Ft per Gallon. @1 Mil.
Application Temperature:	65-90°F and 5° Above The Dew Point
Thinning:	Not Required
Pot Life:	8-12 Minutes
Working Time On Floor:	15-20 Minutes
Cure Time:	3-4 Hours (Walking) 24 Hours (Traffic)
Critical Recoat Time:	24 Hours
Shelf Life:	12 Months
Usda Food And Beverage:	Meets Requirements

Cure time, pot life, and working time are based on a slab temperature of 70-75 F°, and will change accordingly as temperature change.

APPLICATIONS

- Repair larger holes in eroded concrete
- Sloping floors
- Ramps
- Machinery and pump bases
- Curbs
- Berms

PACKAGING

Epoxy Grout Fast is available in 3 different kit sizes:

	Part A	Part B
7 Gallon Kit	6 gal.	1 gal.
14 Gallon Kit	12 gal.	2 gal.
58 Gallon Kit	50 gal.	8.3 gal.

PHYSICAL PROPERTIES

PROPERTY	VALUE	REFERENCE
Compressive Strength	22,200 psi	ASTM C 579
Flexural Strength	13,900 psi	ASTM D 790
Tensile Strength	8,600 psi	ASTM D 307
Bond to Concrete	350 psi concrete fails at this point	ASTM D 4541
Taber Abrasion	Loss/1000 Cycles = 58 mg	ASTM D 4060 CS 17 Wheels
Water Absorption	.10% maximum	ASTM D 413
Linear Shrinkage	.12% maximum	ASTM C 531
Flammability	Self Extinguishing	ASTM D 635
Impact Resistance	16 ft. lb. - no failure	Mil-D-3134H
Coefficient of Friction	.6 minimum	ASTM D 2047
Hardness, Shore D	90	ASTM D 2240
Porosity on unglazed finish	00	NACE Stand TM-01-74

SURFACE PREPARATION

Before the coating is applied, the concrete must be:

- Clean — Contaminants removed
- Profiled — Surface mechanically prepared
- Sound — Cracks repaired

Mechanical methods are required for preparing concrete prior to coating application. Shot-blasting, diamond grinding, scarifying, and scabbling are all acceptable methods. The concrete profile should be approximately a CSP 4 or higher.

MIXING

The mix ratio of Epoxy Grout Fast is 6 to 1. That is, 6 parts of A - resin, to 1 part of B - hardener. Mix the following with a drill and jiffler mixer. For small projects, start by mixing up 108 fluid oz. (.84 gallon), approximately 1/2" cubic foot:

1. Premix Part A 45-60 seconds until uniform. Pour 93 oz. of Part A in a mixing bucket.
2. Add 15 oz. of Part B and mix for 60-90 seconds.
3. Slowly mix in approximately 45-50 lbs. of 20 mesh silica for thicknesses less than 1/2". For applications over 1/2" thick, use 25 lbs. of 20 mesh silica and 25 lbs. of pea gravel. These formulas are starting points and should be adjusted for local conditions. ONYX recommends doing a test sample to ensure quality control.
4. For Spackle Mix (small cracks and divots), mix smaller amounts of A and B (12 oz./2 oz.) then start adding fumed silica about 10-20 oz. (all by volume). Mix into the resin to produce a thick, creamy liquid or add more to produce a peanut butter like consistency.

APPLICATION PROCESS

PRIME COAT:

1. Epoxy Grout Fast should only be installed over an epoxy primed surface first. The Epoxy Grout Fast may be used as the primer if mixed properly without aggregate. ONYX also carries multiple primers.
2. Prime the concrete with the neat resin at a rate of approximately 200-300 feet per gallon.

APPLY EPOXY GROUT FAST WITH AGGREGATE:

1. Epoxy Grout Fast can be applied while the prime coat is still wet.
2. Dump bucket of Epoxy Grout Fast in the area to be grouted and begin applying and finishing with a trowel.
3. Epoxy Grout Fast may also be screeded.

APPLY EPOXY GROUT FAST SPACKLE MIX:

1. Apply Spackle Mix with a putty knife, dry wall knife or trowel.
2. Push the material firmly into voids to insure proper bonding.
3. For best results, sand or grind flush when cured prior to topcoating.

SEAL COAT:

1. Apply Epoxy Top Coat at a rate of 200 Sq Ft with the edge of a trowel to seal the Epoxy Grout.
2. Or to make a seal coat out of Epoxy Grout Fast, Mix Epoxy Grout Fast as detailed under "Mixing" but without the aggregate. Add about 1/2 gallon of Aerosil 200 or Cabosil M5

COLOR SELECTION

Epoxy Grout Fast comes in the "color-of-the-day" and is not selectable. If you need a certain color contact your ONYX representative when placing your order. There may be added cost for specifying a color.

CLEANUP

Epoxy Grout Fast, while in an unreacted state, may be cleaned up with water and degreaser. Isopropyl alcohol or acetone may be needed once the resin begins hardening.

WARRANTY

ONYX Concrete Coatings products are warranted for 1 year after date of manufacture. Please refer to the ONYX Limited Material Warranty for additional clarification. Refer to the ONYX General Product Limitation Guidelines

SAFETY

Consult Epoxy Grout Fast safety data sheet. Avoid Epoxy Grout Fast contact with eyes and skin. Some individuals may be allergic to epoxy. Always wear protective eyewear, clothing, and gloves. Safety always comes first.

MAINTENANCE

Refer to the ONYX Maintenance and Cleaning Guidelines.

PRODUCT LIMITATIONS

Always read the ONYX PRODUCT LIMITATION GUIDELINES prior to installation.