



Fluoropolymer Linings and Coatings

Technical Data

FluoroGrip® – Concrete Filler/Sealer FS-400

Industrial Uses

Type

FluoroGrip® Concrete Filler/Sealer FS-400 is a two component; 1:2 by volume mix ratio, 100% volume solids, Concrete Filler/Sealer. FS-400 exhibits excellent bond strength, and chemical resistance to most acids, alkalis, salt solutions and oils. Due to its non-sag, lightweight consistency, it is used to fill, smooth, seal and repair vertical and overhead voids.

Advantages

FS-400 Concrete Filler/Sealer may be used in a variety of applications such as:

- Achieving a smooth seamless surface
- Excellent adhesion
- Easily applied and quick set time
- Can be bulked with 30-mesh sand

Uses

- Filling Voids and bug-holes in precast concrete and other masonry surfaces.
- Repairing damaged concrete and filling narrow cracks in concrete.
- Filling and smoothing concrete surfaces prior to installing FluoroGrip® elastomeric membrane and lining systems.

Packaging

FS-400 is packaged in “Units” consisting of:

- 1-1/2 gallon can of liquid hardener Part A
- 1 gallon can of liquid resin Part B

Coverage

One – 1 gallon unit of FS-400 will yield approximately 55 square feet. Coverage may vary depending on condition of surface and application method.

Preparation

FS-400 may be installed only on clean, sound surfaces. All coatings, oils, grease and unsound concrete substrate must be removed. Concrete surfaces must be scarified or sand-blasted to remove surface laitance and contaminants. New concrete must be cured for a minimum of 28 days. Do not use concrete curing agents or sealers.

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Physical Properties

Color: Gray

Compressive Strength (psi), ASTM C-579: 4,390 psi

Tensile Strength (psi), ASTM C-307 (resin): 1,550 psi

Bond Strength (psi), ASTM C-231: Greater than 350 psi 100% concrete failure.

Bond Strength (psi), on Steel: 3,500 psi

Coefficient of Thermal Expansion: 3.76×10^{-5} in./in./°F

Impact Strength: 100 in./lbs.

Indentation, MIL-D-3134F: No indentation

Abrasion Resistance, ASTM D-1044 1,000 Cycles, CS-17 Wheel at 1,000 grams: 2.6 milligrams

Flammability, ASTM D-635: Does not support combustion

Working Time at 75°F (24°C) ASTM C-308: 1hr

Water Absorption, ASTM D-570, 24 hours in H2O: 0.038%

Working Time @ 75°F (24°C), ASTM C-308: 25-35 minutes.

Maximum Immersion Temp.: 140°F (60°C)

Shelf Life: 1 year

Solids by Content:

By Weight: 100%

By Volume: 100%

Integument

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Mixing

Prior to starting, materials should be stored at 70°F (21°C) for at least 24 hours.

Mortar – Empty entire contents of Part A into Part B and mix thoroughly for 2 minutes. Mix with a paddle mixer or slow speed drill.

Application

When filling holes and voids apply the FS-400 Concrete Filler/Sealer with a steel finishing trowel, taping knife or metal squeegee. Use the surrounding substrate as a guide. FS-400 Concrete Filler/Sealer may be sanded 12-18 hours after application depending on temperature.

Curing

FS-400 will harden within 6-10 hours; however, 24 hours at 75°F (24°C) is recommended for chemical spills. Lower temperatures will extend required cure times. Cure can be accelerated by introducing heat to substrate. Do not heat over 120°F (49°C), and only increase at a rate of 20°F (-7°C) per hour.

Clean Up

Cured or hardened FS-400 will bond to practically all surfaces and is extremely difficult to remove. Clean all tools and mixer immediately after use with acetone or other solvent based cleaners.

Safety

Make every effort to avoid contact with skin. If accidental eye contact occurs, flush with water and consult a physician immediately. Keep work areas well ventilated. Never reseal a container of mixed Part A and B as the continuing reaction may cause container to explode. FS-400 Material Safety Data Sheets are available upon request.

Note

Refer to FluoroGrip installation manual and instruction guide for use with FluoroGrip membranes and lining systems.

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