

SealBoss®

4500 F QuickSeal Epoxy Paste



Product Data Sheet

Applications / Characteristics

- Fast Cure - Non-Sag Formula
- Seals cracks and around injection ports prior to pressure-injection grouting
- High-modulus, high-strength, 1: 1 ratio
- ASTM C 881 Compliant
Types I, II, IV, V Grade 3, Class B & C

Fast Cure High Strength Epoxy Paste

- SealBoss® Product-Pump-Packer System Solution
- Bulk & Cartridge System
- This Product is for Professional Use

Product Description

SealBoss® 4500 F QuickSeal Epoxy Paste is a fast cure, 100% solids, high modulus, non-sag, non-shrink two component epoxy adhesives that bonds to concrete and other surfaces. SealBoss® 4500 F QuickSeal Epoxy Paste meets or exceeds requirements of ASTM C 881 (Types I, II, IV, & V Grade 3, Class B & C)

Installation Guidelines

Always test a mixed product to insure that the material will harden properly before proceeding. For bulk applications:

To seal cracks for injection grouting
Place the mixed material over the cracks to be pressure injected and around each injection port. Allow sufficient time to cure before pressure injecting.

As a Bonding Adhesive:

Apply the mixed SealBoss® 4500 F QuickSeal Epoxy Paste to the prepared substrates. Work into the substrate for positive adhesion. Secure the bonded unit firmly into place until the epoxy has cured.

Sealboss® Corp. specifically declines any responsibilities, warranties, liabilities if used in load bearing applications.

Concrete Application Recommendations:

Surface Preparation:

Surface must be clean, dry and sound. Remove dust, grease, waxes, foreign particles and disintegrated materials.

Preparation Work:

Concrete: Sand blast or use other approved mechanical means.
Steel: Sandblast to white metal finish.

Bulk Mixing:

Pre-Mix each component separately. Mix 1 part A (resin) to 1 part B (hardener) for 3 minutes using a Jiffy Mixer. Mix at slow speed (less than 850 rpm) to avoid air entrapment. Remember, you will have less working time at higher temperatures. Mix only the quantity that can be used within its pot life and do not allow mixed material to reside in static mixing head or mixer for more than two minutes or nozzle blockage may result.

Never thin with solvents. Surface and ambient temperature must be 45°F (7°C) or above. For applications with constant high temperature (above 120°F, 49°C), contact SealBoss®.

Material will soften at very high temperatures. Do not expose stored product to cold temperature (below 40°F, 5°C) for any length of time.

Note: High temperature will accelerate the setting time. As a general rule, the gel time of the epoxy will be cut in half for each 10° to 15° increase in temperature above 75°F and the gel time will double for each 10° to 15° drop below 75°F (24°C). Minimum age of concrete must be 7 days and considered fully cured, depending on curing and drying conditions.

Maintenance of Equipment

Tools and equipment must be cleaned immediately after use. Remove all excess product. Cured product is hard to remove. **SealBoss® R70 Pump Flush** is a solvent free, non-flammable cleaner, lubricator, pump and hose conditioner. Please refer to the product data sheet for detailed information.

Health and Safety

Protect your health! Always use safety gear in compliance with OSHA and all applicable local and job-site regulations While working with products. Wear appropriate safety goggles, gloves and safety clothing at all times. Store all materials and equipment safely and out of reach of children and animals! Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area. Forced local exhaust is recommended to effectively minimize exposure. Do not weld on, burn or torch epoxy material. Hazardous vapor is released when an epoxy is burned. Further protection: emergency showers and eyewash stations. If eye contact occurs flush with water for 15 minutes. Get immediate medical attention as needed.

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Technical Data:

Components

Weight per Gallon (mixed), lb	Resin, Hardener
Mix Ratio, pb volume (pbw)	11.9
Color	1:1 (1:1.4)
Consistency	Gray
Gel Time 100 grams at 75°F 28°C	Non-Sage Paste
	approx. 9 min.

Cured Product Characteristics

Hardness, Shore D	88	ASTM D2240
Compressive Strength, psi (MPa)	12,600 (87)	ASTM D 695
Compressive Modulus, psi (MPa)	356,900 (2460)	ASTM D 695
Tensile Strength, psi (MPa)	4,400 (30.5)	ASTM D 638
Elongation at Break, %	1	ASTM D 638
Bond Strength, psi (MPa) 2-day	2430 (17)	ASTM D 882
Bond Strength, psi (MPa) 14-day	2750 (19)	ASTM D 882
Heat Deflection Temp, °F (°C)	131°F (55°C)	ASTM D 648
Water Absorption, % (7-day)	0.2	ASTM D 570
Linear Shrinkage, %	<.005	ASTM D 2566

ASTM C 881 (Types I, II, IV, & V Grade 3, Class B & C)

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Coverage

22 oz cartridge yields 39 cu in of epoxy gel adhesive.
Shelf Life: 1 year for cartridges, 2 years in original unopened containers stored indoors at temperatures between 40-95°F.

Packaging

22 oz Cartridge
2 Gallon Kit

Injection Guns, Dispensers

We supply a wide selection of injection guns for use with the Cartridge System. Systems are either manual, electric or pneumatic. Please see injection gun data sheets for more detailed information or call our technical support.

Butyl Glycidyl Ether

The EPA (SARA Title III, section 312) lists BGE as "Toxic" (per ANSI 2129.1) by skin absorption and an immediate health hazard.



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