

4500 QuickSeal Epoxy Paste NSF



Applications / Characteristics

- Seals cracks and around injection ports prior to pressure-injection grouting
- Interior, exterior repair of concrete as a fast setting epoxy mortar binder.
- High-modulus, high-strength, 1: 1 ratio
- Good adhesion to concrete, masonry, wood

Fast Cure High Strength Epoxy Paste

- SealBoss® Product-Pump-Packer System Solution
- NSF/ANSI 61 Potable Water Contact Approved
- Bulk & Cartridge System
- This Product is for Professional Use

Product Description

SealBoss® 4500 QuickSeal Epoxy Paste NSF is 100% solids, high modulus, non-sag, non-shrink two component epoxy adhesives that bonds to concrete and other surfaces. SealBoss® 4500 QuickSeal NSF meets ASTM C-881/ AASHTO M-235, Types I, II, IV, V Grade 3, Classes B, & C* (*Except minimum gel time due to faster set) for Epoxy Resin Adhesives. The product is for professional use.

Installation Guidelines

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

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 QuickSeal to the prepared substrates. Work into the substrate for positive adhesion. Secure the bonded unit firmly into place until the epoxy has cured.

Concrete Application Recommendations:

Surface Preparation:

Surface must be clean, dry and sound. Remove dust, grease, curing compounds, 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: For bulk mixing pre-mix each component thoroughly. Proportion equal parts by volume of Component "A" and Component "B" through appropriate metered epoxy mixing equipment as recommended by the manufacture. 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 five 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.

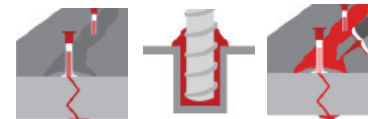
Maintenance of Equipment

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:

Color (A+B mixed)	Grey
Viscosity (mixed)	Gel
Mix Ratio (by volume)	1:1
Gel Time	
60 grams at 75°F 24°C	6-9 min
Initial Cure at 75°F 24°C	approx. 2 hrs
Shrinkage ASTM C-883	Passes
Compressive Strength ASTM D-695	4,000 psi (28 MPa) at 24 hours
	6,300 psi (43 MPa) at 48 hours
	8,300 psi (57 MPa) at 72 hours
	11,200 psi (77 MPa) at 7 days
Concrete Bond Strength ASTM C-882	2,200 psi (15.2 MPa) at 2 days
	3,400 psi (23.4 MPa) at 14 days
Compressive Modulus ASTM D-695	316,100 psi, (2,180 MPa)
Water Absorption ASTM D-570	0.35%
Tensile Strength ASTM D-638 7 days	8,000 psi (55 MPa)
Linear Coefficient of Shrinkage D-2566	0.002
VOC content of 0 g/L .	
Compliant with US VOC regulations	
EPA, OTC, LADCO, SCAQMD & CARB.	

ASTM C-881/ AASHTO M-235, Types I, II, IV, V
Grade 3, Classes B & C*

*Except for minimum gel time due to fast set

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

Coverage

22oz. cartridge yields 39 cu. in.

46oz. cartridge yields 82 cu. in.

Shelf Life:

1 year for cartridges, 2 years in original unopened containers stored indoors at temperatures between 40-95 F.

Packaging

Cartridges

Gallon Units



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