

## SealBoss® 4000 QuickSeal Epoxy Paste

*Fast Cure Epoxy Paste  
Cartridge System & Bulk  
Structural Repairs, Surface Seal  
& Anchoring, please see disclaimer*

### RANGE OF APPLICATION

- Structural bonding of concrete, masonry, metals, wood, etc.
- Grouting bolts, dowels, pins, vertical and overhead, for extremely rapid setting, fast turn around times
- Seals cracks and around injection ports prior to pressure-injection grouting
- Interior, exterior, vertical and overhead repair of concrete as a super fast setting epoxy mortar binder.

### ADVANTAGES

- Insensitive to moisture before, during and after cure
- High-modulus, high-strength, structural gel adhesive
- Excellent adhesion to concrete, masonry, metals, wood and most structural materials.
- Gel consistency ideal for vertical and overhead applications. Easy to mix 1 : 1 ratio between components
- Extremely Fast Setting and high early strength-developing adhesive.

### TYPE OF MATERIAL

**SealBoss® 4000 QuickSeal-Epoxy Paste is a 100% solids, high modulus, non-sag, non-shrink two component epoxy adhesive that bonds to concrete and other surfaces.**

**It meets ASTM-C-881, Type I and IV, Grade 3 Classes B and C for Epoxy Resin Adhesives.**

### PROCESSING

#### To anchor bolts, dowels and pins

Annular space around bolt tested at 1/8 inch; depth of embedment is typically 10-15 times the bolt diameter. See cartridge for application instructions.

#### 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 structural adhesive

Apply the mixed **4000 QuickSeal-Epoxy** Structural Gel Epoxy to the mating or non mating prepared substrates. Work into the substrate for positive adhesion. Secure the bonded unit firmly into place until the epoxy has cured. Non-sag gel, no flow. Pot Life: Approx. 5-10 minutes. (100 gram mass)

Appearance: Compound A = White , Compound B = Grey.

#### Concrete Application Recommendations:

##### Surface Preparation:

Surface must be clean and sound. It may be dry or damp, but free of standing water. 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.

#### **MAINTENANCE OF EQUIPMENT**

Cartridge Systems are disposable and some of the following recommendations may not apply.

Remove all excess product and any smears. Tools and mixing equipment must be cleaned immediately after use. **R70 Pump Flush** is good to your equipment and should always be used. For best results please follow our recommendations.

**First Step** is conditional - Omit if in conflict with regulations on the jobsite or the equipment you use: Flush first with a very small amount of solvent (not supplied by us) to cut remaining material. Caution: Xylol, Toluol, Acetone, M.E.K. are hazardous, combustible, aggressive towards the environment, equipment, seals and hoses. Immediately follow second step.

**Second Step:** Flush with **R70 Pump Flush** circulate cleaner through pump and hoses for several minutes at higher flow rates. **R70 Pump Flush** is a solvent free, non-flammable cleaner, lubricator and pump and hose conditioner. The product ships without any hazard label. We assume no responsibility for equipment damaged by use of material.

#### **PRECAUTION**

Protect your health! While working with this material, safety goggles, gloves and safety clothing must be worn at all times. While injecting, a full face shield is strongly recommended. Spills and blow-outs do happen! Protect yourself and others on the jobsite. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children! Observe container labels, MSDS, and instructions in the Product Catalog 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. Further protection: emergency showers and eyewash stations.

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### Technical Data:

Color (A+B mixed)	Grey/Black
Viscosity (mixed)	Gel
Mix Ratio (by volume)	1:1
Pot Life 100 grams at 77°F	5-10 min
Tack Free Thin Film at 77°	1-2 hrs
Shrinkage ASTM C-883	Passes
Absorption 24 hours	0.12 %
Heat Deflection Temperature, ASTM D-648 129°F	
Bond Strength, ASTM C-882 14 days	3,250 psi
Compressive Strength, ASTM D-695 7 days	13,500 psi
Tensile Strength 73°F, ASTM D-638 14 days	5,450 psi
Flexural Strength, ASTM D-790	5,882 psi
Shear Strength, ASTM D-732	4,900 psi

### Coverage

22oz. cartridge yields 39 cu. in. of epoxy gel adhesive. 46oz. cartridge yields 82 cu. in. of epoxy gel adhesive.  
Shelf Life: 1 year in original unopened container.

**Storage:** Store indoors at temperatures between 40-95 F.

### Packaging

Cartridges, 1 Gallon Units  
2 Gallon Units 110 Gallon Units

### Important Disclaimer:

SealBoss Corp. specifically does not guarantee performance of product where **4000 QuickSeal-Epoxy** is used as an anchor or a structural adhesive. Uses of that kind require special testing. Epoxy products are subject to aging. Initial maximum strength may weaken over time. Further substrate temperatures, UV-exposure, etc. need to be considered.

**Limited Warranty Policy and Disclaimer for Products Supplied and/or Distributed by SealBoss Corp.:** All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use. SealBoss Corp. warrants supplied / distributed products to be free of manufacturing defects. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of the manufacturer which proves to be defective. There are no other warranties by SealBoss Corp. of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. SealBoss Corp. shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. SealBoss Corp. shall not be responsible for use of this product in a manner to infringe on any patent or any other intellectual property rights held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, UV damage, excessive temperature exposure, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and / or physical movement of the substrate or structural defects are also excluded from the limited warranty. SealBoss Corp. reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of or inability to use the product. Recommendations and statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller. SealBoss Corp. reserves the right to change the properties of products without notice.

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Cartridge Capacity			
	MINIMUM EMBEDMENT DEPTH	HOLES PER CARTRIDGE	
		22 oz.	46 oz.
3/8"	3-1.2"	107	223
1/2"	4-1.4"	59	122
5/8"	5"	41	85
3/4"	6-3.4"	25	52
7/8"	7-1.2"	19	39
1"	8-1.4"	15	31

### Ultimate Load Capacity Using Rebar In 4000 Psi Concrete

REBAR SIZE	HOLE DIAM.	EMBED. DEPTH	TOTAL LOADS (LBS) TENSION	SHEAR
#4	5/8"	6"	14,730	19,200
#5	3/4"	6-3/4"	18,810	29,760
#6	7/8"	7-1/2"	27,640	42,240
#7	1-1/8"	8-1/4"	36,200	57,600
#8	1-1/4"	9"	64,000	75,840

### Ultimate Load Capacity Using Threaded Rod In 4000 Psi Concrete

BOLT DIAM.	HOLE DIAM.	EMBED. DEPTH	TOTAL LOADS (LBS)	
			TENSION	SHEAR
1/2"	5/8"	6"	22,000	25,680
5/8"	3/4"	6-3/4"	36,750	42,575
3/4"	7/8"	7-1/2"	51,780	56,450
7/8"	1"	8-1/4"	64,650	66,890
1"	1-1/8"	9"	68,950	71,450
1-1/8"	1-1/4"	10-1/2"	94,750	97,460
1-1/4"	1-3/8"	12"	98,650	102,520

### Bolt-Up And Cure Schedule

TEMPERATURE (°F)	TEMPERATURE (°C)	BOLT UP TIME S (HRS)	CURE TIME (HRS)
40-50	4-10	8	42
51-60	10-16	6	36
61-70	16-21	4	24
71-80	21-27	3	24
>80	>27	2	16