

SealBoss®

4040 LV Epoxy Resin

Product Data Sheet



SealBoss® 4040 Applications

- Structural Concrete Crack Injection
- Welding Cracked Concrete Segments
- Delaminated Slab Repair
- Natural Rock, Masonry, Concrete, Wood
- Gravity Feed or Pressure Injection of Cracks in Concrete, Masonry, Rock, Wood, etc.
- Seal Interior Slabs and Exterior Above-Grade Slabs

High Strength, High-Modulus, Low-Viscosity, Epoxy Injection/Grouting/Sealing/Binder Adhesive

SealBoss® 4040 Advantages

- SealBoss® Product-Pump-Packer System Solution
- Proven, High Strength, Low Viscosity Product
- Convenient Easy Mix Ratio A:B = 2:1 by Volume
- Advanced Solvent Free Formulation
- This Product is for Professional Use

Product Description

SealBoss® 4040 LV Epoxy Resin is a 100% solids, hi-mod, 2-component, moisture-tolerant, low-viscosity, high-strength, multipurpose, epoxy injection resin adhesive.

SealBoss® 4040 meets ASTM C-881/ AASHTO M-235, Types I, II, IV, V* Grade 1, Classes B & C (*with exception of gel time)

Ask your SealBoss technician for details. The product is for professional use.

Installation Guidelines

SealBoss® 4040 is composed of two components. The mixing ratio by volume is 2:1 (A:B).

Concrete Crack Injection:
SealBoss® 4040 is suited for the injection of cracks and voids in concrete. The low viscosity of the material provides for good penetration at low to medium injection pressures. SealBoss® 4040 bonds well under pressure and offers high tensile and compressive strength properties for structural repairs. Injection can be performed in moderate moist environments. Best results and highest strengths are achieved in dry conditions. Do not modify the product if used for injection. For best results, epoxy injection must only be performed with approved two component injection equipment. SealBoss® provides tested and proven two component injection pumps and accessories.

First prepare the surfaces adjacent to the cracks to expose clean, sound concrete. The injection ports should be spaced from 8 in. (20.3 cm) to 36 in. (91.4 cm) apart depending on the crack width and the thickness of the member to be injected. Crack should be sealed at the surface with **SealBoss® 4500** or **SealBoss® 4500 F** epoxy gel.

Other Applications (Not Injection):
Surface Preparation Surface must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, grease, curing compounds, impregnations, oils and any other contaminants. Preparation Work: Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means. Steel - Should be cleaned and prepared thoroughly by blast cleaning or other equivalent mechanical means. If filled with additives, such as silica flour, sand or thixotropic fillers, a mixing ratio of 2:1 (SealBoss® 4040 : additives) should not be exceeded. Warning: Any product modification will change the physical properties of the product and published data will not be applicable.

Limitations:

Minimum substrate and ambient temperature 40°F (4°C). Do not thin. Material is a vapor barrier after cure. Not for injection of cracks under hydrostatic pressure at the time of application. Do not inject cracks greater than 1/4 in. (6 mm) without consulting Technical Service. Color may alter due to variations in lighting and/or UV exposure. Do not use this product for anchor bolting. Sealboss Corp. declines any responsibilities, warranties, liabilities if used for anchor bolting applications.

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.

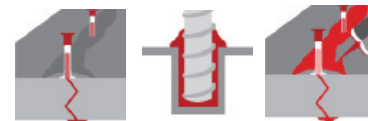
Health and Safety

Protect your health! Always use safety gear in compliance with OSHA and all applicable local and job-site regulations. While working with products. Handling of this product may result in spills, splashes, and airborne substances. Wear appropriate safety goggles, gloves and safety clothing at all times. During any pressure injection process a full face shield is advised for anybody within reach of product spill or blowout. Consider property in proximity of the application to prevent loss or damage. Protect jobsite from unauthorized persons. 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. 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:

Mix ratio	2:1, Part A to Part B by volume
Color (mixed)	Amber
Viscosity:	approx. 390 cps @ 75°F (25°C) and 50% R.H.
Gel times:	60 gm mass 20 Minutes @ 73°F (23°C)
Final cure @ 7 days	
Compressive yield strength (ASTM D-695)	12,385 psi / 85.4 MPa @ 7 days
Compressive Modulus (ASTM D-695)	268,000 psi / 1845.0 MPa
Concrete bond strength (ASTM C-882)	2 days 2,400 psi / 16.4 MPa 14 days 4250 psi / 29.2 MPa
Tensile Strength (ASTM D-638)	7,200 psi / 49.4 MPa
Elongation at break (ASTM D-638)	2.3%
Water Absorption (ASTM D-570)	0.8%
ZERO VOC	0 g/L.
Compliant with all Canadian and U.S. VOC regulations including Federal EPA, OTC, LADCO, SCAQMD & CARB.	

Meets ASTM C-881/ AASHTO M-235, Types I, II, IV, V*
Grade 1, Classes B & C
(*with exception of gel time)

Coverage 231 cubic inches per gallon.

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

Packaging

Cartridges
5 Gallon Units
Drums



Limited Warranty Policy and Disclaimer for Products Supplied and/or Distributed by SealBoss Corp.: SealBoss Corp. Products are for Professional Use. 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 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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