

SealBoss®

4050 SLV Epoxy Resin



Product Data Sheet

SealBoss® 4050 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

Product Description

SealBoss® 4050 SLV Epoxy Resin is a super low viscosity, 100% solids, hi-mod, 2-component, moisture-tolerant, high strength, multipurpose, epoxy injection resin adhesive.

SealBoss 4050 SLV Epoxy Resin meets ASTM C-881/ AASHTO M-235, Types I, IV Class C, Grade 1.

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

Installation Guidelines

SealBoss 4050 SLV Epoxy Resin is composed of two components. The mixing ratio by volume is 2:1 (A:B).

Concrete Crack Injection

SealBoss 4050 SLV Epoxy Resin is suited for the injection of cracks, voids and fissures in concrete, delaminations in concrete, masonry, stone and sealed wood. The very low viscosity of the material provides for superior penetration at low to medium injection pressures. SealBoss 4050 SLV Epoxy Resin bonds well under pressure and offers high tensile and compressive strength properties for structural repairs. The product cures to a tough, resilient polymer with excellent load transfer capabilities. Injection can be performed in wet 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 4 in. (10 cm) to 12 in. (30 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® 4500F QuickSeal Epoxy Paste**.

Other Applications

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.

Super Low Viscosity High Strength, High Modulus, Epoxy Injection Resin Adhesive

SealBoss® 4050 Advantages

- SealBoss Product-Pump-Packer System Solution
- Super Low Viscosity, Deep Penetration Formula
- Convenient Easy Mix Ratio A:B = 2:1 by Volume
- Advanced Flow, Solvent Free Formulation
- VOC Free
- This Product is for Professional Use

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. The maximum in-service temperature should not exceed 20°F below the HDT in bonding applications subjected to substantial and sustained shear stresses that may cause creep. Do not add solvents or otherwise thin this material. 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.

Chemical Resistance

SealBoss 4050 SLV has excellent resistance to a wide range of chemicals including acids and bases, aircraft and automotive fluids, petroleum fuels, cutting oils, etc. It has limited resistance to hydrocarbon solvents. Performance is a function of the specific chemical and concentration, ambient and solution temperatures, and exposure times.

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.

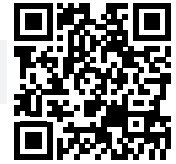
SealBoss® 4050 SLV Epoxy Resin

SealBoss®

4050 SLV Epoxy Resin



Product Data Sheet



Technical Data:

Mix ratio 2:1, Part A to Part B by volume
Color (mixed) Amber or purple
Viscosity (ASTM-2393) approx. 200 cp mixed at 75°F (25°C)
Part A 300 cp / Part B 95 cp

Gel Time, 100 g
@ 73° F / 23°C (ASTM D 2471) 20 minutes
@ 40° F / 10° C (ASTM D-2471) 85 minutes

Compressive Yield Strength (ASTM D-695) 16,000 psi / 110 MPa
Compressive Modulus (ASTM D-695) 400,000 psi / 2758 MPa
Concrete Bond Strength (ASTM C-882) 2 days 2,000 psi / 14 MPa
14 days 3,000 psi / 21 MPa
Tensile Strength (ASTM D-638) 10,630 psi / 73 MPa
Flexural Strength (ASTM D-790) 12,000 psi / 82 Mpa
Flexural Modulus (ASTM D-790) 490,000 psi / 3378 Mpa
Elongation at break (ASTM D-638) 2.3%
Heat Deflection Temperature (D-648) 60°C / 140°F
Linear Shrinkage (%) 0.00

Meets ASTM C-881/ AASHTO M-235, Types I, IV, Class C, Grade 1

Cure schedule, 7 days at 73° ± 4° F and test temperature, 73° ± 4° F unless otherwise indicated

Coverage 231 cubic inches per gallon.

Shelf Life 1 year for cartridges, 3 years in original unopened containers stored indoors at temperatures between 40-95°F.

Packaging

14.5 oz Cartridge
3 Gallon Kit
15 Gallon Kit

Handling and Toxicity: For hazard warnings, safe handling and first aid instructions, CAREFULLY READ THE SAFETY DATA SHEETS (SDS) AND CONTAINER WARNING LABELS.

Part A: Liquid epoxy resin, HMIS Health Hazard Rating- 2. Warning! Causes eye and skin irritation. May cause allergic skin reaction. Harmful if swallowed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid prolonged or repeated contact with skin. Part B: Liquid epoxy hardener, HMIS Health Hazard Rating- 3. Contains alkaline amines. Danger! Causes severe eye and skin burns. May cause allergic skin and respiratory reaction. Combustible, corrosive. Do not get in eyes or skin or on clothing. Avoid breathing vapor. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Keep away from heat and open flame.

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.

Revised 202401