

## SealBoss® 4040 LV Epoxy Resin



100% Solids  
Low Viscosity  
Epoxy Resin

### RANGE OF APPLICATION

- Crack Injection
- Welding Cracked Concrete
- Bolt Grouting
- Plate Grouting
- Delaminated Slab Welding
- Repairing Wood Beams

### ADVANTAGES

- Proven Standard Product
- Wide Application Range
- High Strength
- Low Viscosity

### TYPE OF MATERIAL

**SealBoss® 4040 LV-Epoxy-Resin** is a 100% solids (solvent free), high modulus, non-shrink two component epoxy injection resin with outstanding features.

**SealBoss® 4040 LV-Epoxy-Resin** is designed for the injection of cracks and voids in concrete. Due to the low viscosity of the material good penetration is achieved even at lower injection pressures. **SealBoss® 4040 LV-Epoxy-Resin** has superior water displacing properties and bonds well in moist conditions.

Due to the high tensile and compressive strength of the cured product, **SealBoss® 4040 LV-Epoxy-Resin** is ideal for structural repair.

To achieve best results a combination of several products may be recommended in some applications.

### PROCESSING

**SealBoss® 4040 LV-Epoxy-Resin** is composed of two components. The mixing ratio by volume is 2:1 (A:B). The product is formulated to be pumped with our Injection equipment and other quality epoxy injection machines.

The product may be filled with additives, such as silica flour, sand or thixotropic fillers. A mixing ratio of 1:1 (**SealBoss® 4040 LV-Epoxy-Resin** : Additives) should not be exceeded. Physical properties of the modified product may change. **SealBoss® 4040 LV-Epoxy-Resin** can be processed with single component equipment but two component equipment is recommended for extensive injection work.

The gel time of premixed material is determined by the quantity of the batch and the temperature. Since the reaction of the epoxy resin produces heat, a large batch is likely to react much faster than a small quantity of material. This fact should be closely observed by the user of single component equipment to prevent premature reaction in the pump and grout line system. If reaction of the batch occurs while pumping, immediately shut down the machine and flush with a cleaner to avoid built up and clogging of the equipment. The coverage is 231 cubic inches per gallon. To achieve most satisfying and permanent results in certain applications, a combination of **SealBoss® 4040 LV-Epoxy-Resin** with other systems of our product line may be advised. Ask your **SealBoss®** technician for details.

### MAINTENANCE OF EQUIPMENT

Remove all excess product and any smears. Tools and mixing equipment must be cleaned immediately after use. **SealBoss® 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 **SealBoss® R70 Pump Flush** circulate cleaner through pump and hoses for several minutes at higher flow rates. **SealBoss® 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.

### STORAGE

Good storage stability of unopened containers at temperatures between 15 - 30 C (58 - 85 F). Store indoors.



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### Injection Guns

We supply a wide selection of injection guns for use with the **4000 LV-Epoxy-Resin** Cartridge System. Systems are either manual, electric or pneumatic. Please see injection gun data sheets for more detailed information or call our technical support.



#### TECHNICAL DATA

	Comp. A	Comp. B	
Form / Color	Natural or colored		
Solids	100%	100%	ASTM D 1010
Density, g/ml	1.14	0.93	ASTM D 3800-79
Mixing Ratio by Volume	2 parts	1 part	
Viscosity, cps 77F	approx. 400	approx. 100	
Packaging	5 Gal	5 Gal	

Viscosity mixed, cps 77F	approx. 280		
<b>Gel Time (24C / 75 F)</b>	<b>20-30 min.</b>		
<b>Initial Set</b>	<b>40-60 min</b>		
Initial Cure	2-8 hours		
Final Cue	>24hrs		
Storage	Good storage stability for unopened containers at 15 - 30 C / 58 - 85 F. Store indoors.		

#### Cured Product

Compressive Strength, psi	14,000 -15,000		ASTM D-695
Tensile Strength, psi	8,500 - 9,000		ASTM D-638
Tensile Modulus,psi	510,000 - 550,000		ASTM D-638
Tensile Elongation at Break	4-6%		ASTM D-638
Flexural Strength,psi	15,000-17,000		ASTM D-790
Shore D Hardness	85-90		ASTM D 2240-75
Bond Strength, psi	4000-5000		ASTM C-882
Slant Shear Strength, psi	4000		ASTM C-882
Bond Strength Concrete	Crack in Concrete		
Heat Deflection Temp.	>190 F		ASTM D-648
Shrinkage	Passes		ASTM C-883
Adhesion to Concrete	100% Failure in Concrete		ASTM D-4514

#### ASTM C-881-87 TYPE I, II, IV, V, GRADE 1, CLASS B & C

Epoxy Resin Adhesive			
Appearance	Yellowish-Clear		
Resistance to Chemicals	Resistant to Most Organic Solvents, Mild Acids, Alkali and Micro Organisms		

#### \*) Important Notice:

Due to the complexity of load bearing applications special processing and training may be required. This data sheet, published tech data and other provided information do not imply the general suitability of SealBoss Corp. **4040 LV Epoxy Resin** as an anchor or a structural adhesive. Special testing and approval of a trained engineer in charge of and authorized for the project may be required to ensure suitability and liability requirements. As any polymers, epoxy products are subject to aging and changes in properties. Initial maximum strength may weaken over time. Substrate temperatures, UV-exposure, etc. need to be considered.

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Revised 201205