

SealBoss® 4050 SLV-Epoxy-Resin

Super Low Viscosity Epoxy Resin For Structural Repairs

TYPE OF MATERIAL

SealBoss 4050 SLV-Epoxy-Resin is a super low viscosity two component epoxy resin designed for deeper penetration and high strength. The product conforms to ASTM C-881, Types I and IV, Grade 1, Classes B & C. It meets USDA specifications for use in food processing areas. An excellent epoxy adhesive for use in crack injection or gravity-feed, and as a general purpose adhesive for sealing concrete slab conditions and as epoxy patching mortar and grout.

- High Strength
- Super Low Viscosity
- Deep Penetrating and Strong Bonding Properties

RANGE OF APPLICATION

- Crack Injection in Structural Concrete, Masonry, Wood
- Gravity-Feed of Cracks
- Welding Cracked Concrete
- Epoxy Mortar Base For Patching
- Delaminated Slab Welding
- Grouting Bolts, Dowels, Pins, etc.

4050 SLV-Epoxy-Resin is designed for the injection of cracks and voids in concrete. Due to the super low viscosity of the material good penetration is achieved even at lower injection pressures. **4050 SLV-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, **4050 SLV-Epoxy-Resin** is ideal for structural repair.

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

PROCESSING

4050 SLV-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.

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.

To prepare an epoxy mortar, slowly add 4-5 parts by loose volume of oven-dried aggregate to 1 part of the mixed **4050 SLV-Epoxy-Resin** and mix until uniform in consistency.

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 **4050 SLV-Epoxy-Resin** with other systems of our product line may be advised. Ask your **SealBoss** technician for details.

Tips to gravity feed cracks:

Pour mixed **4050 SLV-Epoxy-Resin** into surface cleaned and notched cracks. Continue placement until completely filled. Seal underside of slab prior to filling if cracks reflect through.

Tips to seal slabs:

Spread mixed **4050 SLV-Epoxy-Resin** over slab. Allow penetration. Remove excess to prevent surface coat. Seal interior slabs and above grade exterior slabs only.

Tips for use as an epoxy mortar:

Prime prepared surface with mixed **4050 SLV-Epoxy-Resin**. Place prepared epoxy mortar while primer is tacky. Place the epoxy mortar using trowels. Exterior application may darken over time with UV exposure.

MAINTENANCE OF EQUIPMENT

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.

STORAGE

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

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TECHNICAL DATA

Color (A+B)	Amber		
Viscosity (mixed)	Approx. 100 cps		
Mix Ratio (by volume)	2:1		
Pot Life 100 grams @ 77F	30 mins		
Absorption	0.85 %	ASTM D-570	24 hrs
Shrinkage	Passes	ASTM C-883	
Gel Time	50 mins	ASTM C-881	
Heat Deflection Temperature	120F	ASTM D-648	
Bond Strength	2,400psi	ASTM C-88	2 2 days
	3,600 psi		14 days
Compressive Strength @73F	10,700 psi	ASTM D-695	7 days
Tensile Strength @ 73F	7,000 psi	ASTM D-638	14 days
Flexural Strength	9,700 psi	ASTM D-790	
Shear Strength	9,000 psi	ASTM D-732	

ASTM C-881, Types I and IV, Grade 1, Classes B & C

Coverage:

1 gal. of **4050 SLV-Epoxy-Resin** mixed with 5 gal. of loose volume of oven-dried aggregate, yields approx. 810 cu. in. of epoxy mortar.

Shelf Life:

1 year in original unopened container.

Storage Conditions:

Store at 40°-95° F. Condition material to 65° – 85° F before using.

Appearance:

Compound A = Clear, Compound B = Amber

Available In:

34 oz. cartridges, 3 gallon units, 15 gallon units, and 165 gallon units.

Resistance to Chemicals

Resistant to Most Organic Solvents,
Mild Acids, Alkali and
Micro Organisms

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Revised 201012