

# SealBoss®

## 4130 Epoxy Binder Adhesive



Product Data Sheet

### SealBoss® 4130 Applications

- Skid Resistant Surfaces and Mortar Binding
- High Friction Traffic Surfaces
- Shock Absorbing Surfaces
- Easy blending of aggregates for mortar repairs
- Meets ASTM C-881, Type III Requirements

### Product Description

**SealBoss® 4130 Epoxy Resin Binder & Adhesive** is a 100% solids, moisture tolerant, low viscosity epoxy/urethane binder and adhesive meeting the requirements of ASTM C-881, Type III, Grade I, Classes B & C.

SealBoss® 4130 Epoxy Resin Binder & Adhesive is used primary for bonding skid-resistant overlays and high friction surfaces to bridges and elevated slabs and as a low modulus binder for epoxy mortars where thermal change is a consideration. Material can also be used to seal interior and exterior above grade slabs and as low modulus crack filler. Ask your SealBoss® technician for details. The product is for professional use.

### Installation Guidelines

SealBoss® 4130 Epoxy Resin Binder & Adhesive is composed of two components. The mixing ratio by volume is 1:1 (A:B).

**Surface Preparation:** Surface to be bonded must be clean and sound. Remove oil, dirt, grease, laitance, curing compounds and other foreign matter that may cause a problem with bond. Abrasive blast cleaning and mechanical removal methods are recommended. Remove all standing water and dust with clean, oil free, compressed air prior to installation. Mixing: Condition material to 65°-85°F (18°-29°C) for ease of mixing and optimum flow prior to using. Premix each component then place 1 part by volume of Component A and 1 part by volume of component B into a clean pail and mix for three minutes with a low speed drill using a Jiffy mixer or paddle until uniformly blended. Mix only what can be used within the pot life.  
Placement

**Epoxy Overlays:** Repair all delaminations, potholes and cracks using SealBoss® 4130 Epoxy Resin Binder & Adhesive. Mix the epoxy as previously directed and apply course #1, spreading the neat SealBoss® 4130 Epoxy Resin Binder & Adhesive at a coverage rate of 40 ft<sup>2</sup>/gal. [1 m<sup>2</sup>/L] using a (3/16) notched squeegee; immediately broadcast select aggregate to refusal (typically 1-1.5 lb/ft<sup>2</sup>, 4.88-7.32 kg/m<sup>2</sup>). The aggregate should be angular grained silica sand or basalt having less than 0.2% moisture and free of dirt, clay and all impurities. The aggregate should have a minimum MOHS scale hardness of 7 unless otherwise approved. After the initial cure of the first course, remove all excess aggregate and apply course #2, spreading the neat SealBoss® 4130 Epoxy Resin Binder & Adhesive at a coverage rate of 20 ft<sup>2</sup>/gal. ([0.5 m<sup>2</sup>/L], again broadcasting the select aggregate to the point of rejection. After allowing the system to cure [2.5 hrs for course #1 and 4 hrs for course #2 [ @ 70°F (22°C)]] and after all the aggregate has been removed it can be opened up to traffic.

### 100% Solids, Low Viscosity Epoxy Binder and Adhesive

### SealBoss® 4130 Advantages

- SealBoss® Product-Pump-Packer System Solution
- Proven, High Strength, Low Viscosity Product
- Moisture Tolerant, Strong Adhesion Properties
- Advanced Solvent Free Formulation
- This Product is for Professional Use

Colder temperatures will slow the setting time while warmer temperatures accelerate the set time as follows:

at 60°-65°F (16-18°C) set time for course #1 would be 4 hrs and 6-5 hrs for course #2

at 80°-84°F (27-29°C) set time for course #1 would be 1.5 hrs and 3 hrs for course #2

### High Friction Surface Application

**Surface Preparation:** Surfaces shall be clean, dry, and free of all dust, oil, debris and any other material that might interfere with the bond between the epoxy binder material and existing surfaces. Pavement markings that conflict with the surface application shall be removed by grinding and the surface shall be swept clean prior to application.

**Limitations:** Test a small amount of SealBoss® 4130 Epoxy Resin Binder & Adhesive to insure that the product is mixed properly and thoroughly and that the material will harden properly before proceeding with the installation. Concrete surface must be less than 4% moisture content when tested with a moisture pin meter. On wood and other surfaces contact Technical Service for more information. Surface and ambient temperature must be a minimum of 50°F (10°C).

### 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. Wear appropriate safety goggles, gloves and safety clothing at all times. 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.

# SealBoss®

## 4130 Epoxy Binder Adhesive



Product Data Sheet

### Technical Data:

Mix ratio	1:1, by volume
Gel time	15 min. (60g sample at 72°F (23°C)) ASTM D-2393
Color (mixed)	Gray
Viscosity	1,400-1,600 cps
Final Cure	7 days
Compressive Modulus	78,000 psi ASTM D-695
Bond Strength	1950 psi (22 MPa) ASTM C-882: 14 days 3
Tensile Strength	2900-3100 psi (20.7 MPa) ASTM D-638
Elongation at Break	50.0% ASTM D-638
Water Absorption	0.20% ASTM D-570:
Thermal Compatibility	Passes Test
Chloride Ion Permeability	0.8 Coulombs AASHTO T-222

VOC content of 0 g/L  
Compliant with all US VOC regulations  
EPA, OTC, LADCO, SCAQMD & CARB.

### Estimating Guide

#### Broadcast Overlays:

Course #1: Epoxy rate: 40 ft<sup>2</sup>/gal (1 L/m<sup>2</sup>); Aggregate rate: 1-1.5 lb/ft<sup>2</sup>, (4.88-7.32 kg/m<sup>2</sup>).  
Course #2: Epoxy rate: 20 ft<sup>2</sup>/gal (2 L/m<sup>2</sup>); Aggregate rate: 1-1.5 lb/ft<sup>2</sup>, (4.88-7.32 kg/m<sup>2</sup>).

#### High Friction Surface Application

Course #2: Epoxy rate: 20 ft<sup>2</sup>/gal (2 L/m<sup>2</sup>); Aggregate rate: 1-1.5 lb/ft<sup>2</sup>, (4.88-7.32 kg/m<sup>2</sup>).  
Coverage rates may vary based upon, texture of the concrete, tining, milling and broom finishes.

**Epoxy Mortar:** 2 gal / (7.6 L) epoxy mixed with 10 gal. (37.8 L) of dry sand yields approximately 0.94ft<sup>3</sup>C

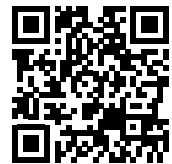
#### Shelf Life

2 years in original unopened containers stored indoors at temperatures between 40-95°F (5°-35°C)

#### Packaging

1 Gallon Kit  
5 Gallon Kit  
55 Gallon Kit

**Butyl Glycidyl Ether:** The EPA (SARA Title III, section 312) lists BGE as "Toxic" (per ANSI 2129.1) by skin absorption and an immediate health hazard.



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