

SealBoss® 1430 LV Resin PUR

2 Component Formulation

RANGE OF APPLICATION

- Follow-up Injection of Water Stop Foam Injection
- Injection into Dry Structures
- Hairline Crack Injection
- Sealing Concrete Cracks & Joints
- Sealing Concrete Construction Joints
- Brick Construction
- Waste Water Tanks
- Sewers, Manholes, Utility Boxes, etc.
- Tunnels, Dams
- SealBoss®2000 Injection Tube System

TYPE OF MATERIAL

SealBoss® 1430 LV-Resin is a low viscosity two component hydrophobic polyurethane resin based on a MDI (methylene-diphenyl-isocyanate). The product is 100% solvent free and 100% solids. The mixing ratio is A:B is 1:1 by volume.

1430 LV-Resin is a chemical cure polyurethane product that does not need any external moisture to cure.

Under pressure injection **1430 LV-Resin** cures to a dense and flexible sealant. The product is non-corrosive towards steel and is safe for use in combination with foils and joint strips.

1430 LV-Resin has a low viscosity of less than 100 cps at room temperature and an extended gel time, allowing for excellent penetration into finest hairline cracks. Another advantage of this very flexible material is the adhesive strength to concrete which is typically higher than the tensile strength of the product when injected into the structure. The combination of great adhesion and flexibility of the material minimizes risk of developing new cracks in the concrete. The cured resin is inert to wet and dry cycles, it does not shrink or swell.

LIMITATIONS

SealBoss® 1430 LV-Resin is not designed to stop active water leaks but to seal cracks that are dry or only slightly moist during time of injection. To stop active water leaks first inject **SealBoss® Water Activated Foam or FlexGel**. Some injection projects (very common in Europe) often require mandatory secondary injection with flexible non-cellular resin (such as **SealBoss® 1430 LV-Resin** or **SealBoss® 1403 LV-Resin**) to permanently seal water stop injections using water activated foam grouts.

Ask your **SealBoss** technician for details. **1430 LV-Resin** succeeds prior polyurethane resins of the 1400 line.

SealBoss® 1430 Catalyst is available to reduce gel time and may be added to the B-side of a 10 gal batch of material.

PROCESSING

1430 LV-Resin is supplied in separate containers with equal amounts of A and B component. The mixing ratio by volume is 1:1 (A:B). The material can be applied with suitable two-component or single component injection equipment. Use of single component equipment makes it necessary to keep batches small enough to ensure complete dispersion of

Low Viscosity, Flexible Polyurethane Injection Resin

material during the 'workable' pot life in order to avoid reaction in the pump and hoses. We do not assume responsibility for equipment failures due to 'prematurely' reacted product.

SealBoss® 1430 Catalyst may be added to the B component prior to mixing a batch, or prior to injection in a two-component pump. The catalyst is a concentrate and small volumes reduce the gel time considerably. The catalyst is provided in 20 ml vials. It is recommended to create a small 'test batch' prior to mixing the full batch designed for injection, especially when using single component equipment.

Plan ahead: Single component equipment users: Observe temperature and humidity of the environment, since both determine the pot-life of the premixed batch. Do not mix more material than the amount that will be pumped within reasonable time. Rule: High temperatures and high humidity SHORTEN your gel time.

Caution: It is essential for all equipment to be dry. Avoid any moisture contact with the mixture to prevent premature reaction of the product. If reaction of the batch occurs while pumping, immediately shut down the machine and flush with a cleaner to avoid build up and clogging of the equipment.

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 **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.

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.

SealBoss® 1430 LV Resin PUR

2 Component Formulation

Low Viscosity, Flexible
Polyurethane Injection Resin

TECHNICAL DATA

	Comp. A	Comp. B	
Appearance	Dark	Dark	
Solids	100%	100%	ASTM D 1010
Density, g/ml	1.14	1.05	ASTM D 3800-79
Flash Point, C / F	100/205	150/392	ASTM D 93-85
Viscosity, cps	90-110	80-100	ASTM D 1638-74
Mixing Ratio by Volume	1 parts	1 part	
Packaging	5 Gal	5 Gal	

Pot life with 1430 Catalyst Usage (example for 20ml vials)

Vials added to 5 Gal of B Component at 50F	Geltime
0 vials	220 minutes
1 vial	130 minutes
2 vials	75 minutes

Vials added to 5 Gal of B Component at 80F	Geltime
0 vials	120 minutes
1 vial	65 minutes
2 vials	25 minutes

Cured Product	
Hardness, Shore D	50
Elongation, %	>800 ASTM D 638
Tensile Strength, psi	100 ASTM D 638
Adhesive Strength, to Concrete, psi	>100
Corrosiveness	Non-Corrosive
Storage	Good storage stability for unopened containers at 15 - 30C, 58 - 85F in dry, sun free indoors environment 1 year shelf life.
Appearance	Light Brown Polyurethane Sealant
Toxicity	Essentially Non-Toxic in Cured Form MDI Based
Resistance to Chemicals	Resistant to Most Organic Solvents, Mild Acids, Alkali and Micro Organisms



Limited Warranty Policy and Disclaimer for Products Supplied and/or Distributed by SealBoss Corp.: 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 Material 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 201310