

SealBoss® 1430 LV-Resin

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 an 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

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 stop foams 1510/1570/1572. *Some injection projects (very common in Europe) often require mandatory secondary injection with flexible non-cellular resin (such as 1430) 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.

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 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.

Low Viscosity, Flexible Polyurethane Injection Resin

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. **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.

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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

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