

SealBoss® P1001 Injection Pump

- Heavy duty for daily use
- Lightweight
- > 4,000 PSI
- Easy to use, clean & maintain
- Single component
- Pressure gauge
- Hopper included
- Recommended for beginners and injection pros
- Compatible with the complete line of our Injection Grouts including epoxy resins
- Short Hose & Coupler included

The **SealBoss® P1001 Pump** features a very compact design with horizontal drill attachment.

This extremely lightweight and powerful injection pump can be used for most of the **SealBoss®** polyurethane and epoxy injection line products with viscosities between 10 and 1000 cps. Call your **SealBoss®** technician for details. Suitable for mid-size jobs and daily use this is the perfect machine for waterproofing contractors performing commercial work and residential injection. With this pump it is a snap to get in and out of basements and confined areas as found on many job sites.

This pump is of professional grade quality for every day use. The output and pressure are exceptional for a machine of this size. The modular design keeps maintenance cost low and allows for easy cleaning.

Parts can be replaced by the savvy contractor to keep downtime at an absolute minimum.



Hose extension with valve and packers sold separately



Light Weight Electric Drill Operated Injection Pump

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This pump is powered by a Bosch electric drill which is sold separately by **SealBoss®**. The drill offers a variable speed adjustment to adjust material volume and pressure.

North America: Standard Bosch drill 110V sold separately.

International Orders: Special order Bosch drill 220V (lead time and cost subject to availability at time of order) or voltage converter available on request. Please consult with your SealBoss Technician.

Contact your SealBoss Technician to confirm that your product is suitable for use with this machine.

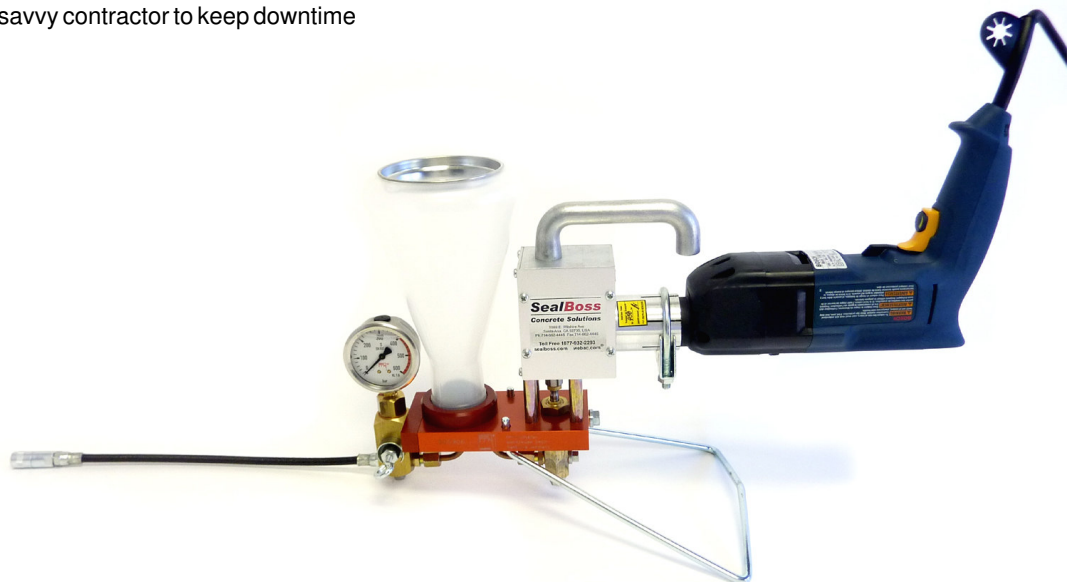
Technical Data:

Max. pressure :> 4000 psi

Weight :9 lbs

Recommended drill:

BOSCH 1194 with modified speed switch as supplied by **SealBoss®**



SealBoss® P1001 Injection Pump

MANUAL

READ CAREFULLY BEFORE USING YOUR P1001 INJECTION MACHINE

General Information:

Your pump has been subjected to a trial run and pressure test to ensure highest quality control. You might find some residue of hydraulic oil in the system and some residue in the packaging. This does not impair operation.

Getting Started:

The pump is delivered ready for operation. The operating side is the side which shows the pressure gauge with scale points. For reasons of transport the short pressure hose (23) with zerk coupler (24) as well as the electronic drill for the drive (clockwise turning drill only is suitable) and the bracket (5) are not assembled. The drill is sold separately and might not be part of the package if not specifically ordered.

Proceed as follows: Screw the pressure hose (23) with zerk coupler (24) to the bottom left side of the pressure distributor (84) Use packing ring (47) to seal the connection. Place the bracket (5) into the holes drilled in the mounting plate (1), with the bracket pointing towards the right. After having removed the chuck, introduce the electronic drill to the drill holding device (11) as with any other attachment device - so that the milled key faces (17 mm) will be engaged in the claws of the drill coupling (29). Then tighten the clamping ring (30) (Snug, but not excessively).

! Use CLOCKWISE Rotation Setting On Drill only!

! Never pump water! Do not run the pump dry!

Your Pump is now ready for operation!

! Caution

This Pump may create very high injection pressures in excess of 6000 psi. Extremely high pressures can cause damage to attached hoses, valves etc. and can also cause damage in the structure to be injected. The equipment is designed for professional use only. Please observe caution at any time when operating this machine to avoid serious injuries.

Operation:

Use the modified Bosch Drill for best results, supplied separately. Do NOT use Drill in Hammer -Drill setting. Use a very low speed to start the pumping process. If you are not experienced with this kind of injection pump, we suggest that you perform tests with hydraulic oil or resin without added hardener, to get used to handling of the machine. To vent the pump open the vent valve (60) on the left-hand bottom side of the pressure distributor (84) by half a turn. before filling in the injection compound. Run the pump at reduced speed until resin starts to come out of the vent valve. Then close it up. Once the desired working pressure is obtained, set the dial switch of the electronic drill so that this pressure will not be exceeded. Please note that any pressure exceeding the 400 bar / 6000 psi mark within the red safety zone of the pressure gauge scale may cause an overload on the gearing system, as well as the attached hose and valve. In regular injection procedures your injection pressure should be well below the 400 bar mark.

Please follow the instructions of the resin supplier carefully. Make sure that no foreign particles will enter the pump with the resin. This will help to prolong the service life of your pump.

Maintenance:

Immediately after use, clean the pump with R70 Pump Flush. This product is not harmful to seals and hoses and may be left in the system as lubrication. Solvents should be used for the initial flush to cut thicker residue - Follow all safety guidelines. Do not leave a solvent in the system as it is caustic towards seals and hoses. Fill up the resin tank (2), clean the inner walls and pump. Repeat this several times. For thorough cleaning: Open the cylinder (219) by means of locking screw (52), clean spring (21) and ball (220) directly. Lightly oil the parts and refit. Screw in the locking screw (52) with packing ring (47) and tighten well to maintain the pressure.

Never use any sharp or pointed objects to clean the pressure gauge (80). The pressure gauge body must under no circumstances be separated from its base. The complete pressure gauge may only be separated from the pressure gauge support at the large hexagonal key faces SW 24 or SW 27. All bearings, with the exception of piston (214), are permanently lubricated ball bearings. After approx. 100 working hours, unscrew cover plate (48) and check state of lubrication; if necessary, relubricate using gear oil.

Troubleshooter:

Drill does not work: No power, electrical defect. Drill works but the pump does not:

1. The drill has not engaged properly. 2. Snapping of a shear pin at rated breaking point due to overload. 3. Defect in gearing system due to overload. Drill and pump work but no pressure builds up: 1. Foreign particles at ball valve seat prevent closing of the ball valve and/or spring (21) and ball (220) are covered with resin. 2. Injection piston (215) worn out by running dry. 3. The overflow of resin at the injection piston (215) and nut (225) can be hindered by the packing-bush (58), SW 11.

Pump builds up pressure but no resin is delivered:

1. Pressure hose (23) and/or Zerk Coupler (24) are clogged up with resin. Unscrew and replace pressure hose (23). 2. Cylinder is clogged up. Unscrew the locking screw (52) and clean spring (21) and ball (220); in case of considerable contamination scrape the cylinder using a piece of hard wood, do not use metal. Avoid damage to the ball seat caused by using sharp objects. 3. if the hole connection between resin tank (2) and cylinder (219) is heavily clogged up, return the pump to us for repair.

Safety Instruction:

• Protection while working: • Follow product data sheets and MSDS; wear protective goggles and protective gloves.

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No.	Description	Qty
R1	Mounting plate red	1
2	Resin tank	1
R3	Tank support red	1
5	Bracket	1
11	Drill holding device	1
12	Handle	1
13	Piston rod	1
17	Crossbolt	1
18	Eccentric shaft	1
21	Spring	1
22	Locking screw	2
23	Pressure Hose	1
24	Zerk Coupler	1
26	Gear wheel	1
27	Pinion shaft	1
29	Drill coupling	1
30	Clamping ring with nut	1
31	Ball bearing	2
32	Ball bearing	2
33	Ball bearing	2
34	Socket head cap screw	4
35	Shear pin	1
36	Socket head cap screw	2
40	Retaining washer 10	1
41	Retaining washer 8	1
42	Retaining washer 7	2
44	Washer	1
45	Washer	2
46	Socket head cap screw	3
47	Packing ring	5
48	Cover plate	2
49	Cross slotted screw	12
50	Grub screw	1
51	Packing ring	2
52	Locking screw	2
54	Socket head cap screw	4
58	Packing bush	1
59	Tank filter	1
61	Valve body	1
62	Valve key	1
67	Hardfoam packing box	1
80	Pressure gauge	1
81	Packing ring, large	1
82	Pressure gauge holder	1
83	Socket head cap screw	2
84	Pressure distributor	1
86	Union	2
87	Coupling nut	2
88	Cone	2
89	Connecting pipe	1
91	Spray protection	1
92	Gear cover	1
93	Locking cover	1
94	Gear feet	4
98	Gear box	1
214	Piston	1
215	Injection piston	1
216	Piston bearing with packing ring	1
219	Cylinder	1
220	Ball	1
225	Brass nut	1
239	Check nut	1
255	Piston bearing packing ring	1
256N	Cylinder packing ring	1
Accessories:		
63	Cleaning brush	1
65	Set of tools = 7 pcs.	1
Combined parts		
13K	only complete with no. 32 + 33	
60	Vent valve only complete, with no. 61, 62, 91 + 47	
85	Pressure gauge conn. only with no. 2 x 86, 2 x 87, 2 x 88, 1 x 89, 2 x 47	
82	only complete with no. 36, 82 + 84	
65	7 pcs. = hexagon socket screw key 5, 6 screw driver (plug type) open end wrench 10/12, 13/14, 18/22, 24/27 11	
219N	Piston Kit includes: 215, 220, 21, 225, 239, 58, 52, 51, 47, 22, 256N	

