

# SPETEC BOOM! SEAL

TWO COMPONENT, HIGHLY EXPANSIVE POLYURETHANE FOAM FOR LEAK SEAL.



## DESCRIPTION

SPETEC BOOM! SEAL is a two component, high expansion (35x), hydro insensitive polyurethane foam.

## ADVANTAGES

- 90% of full strength in 15 minutes.
- High expansion rate of 35x.
- Works in wet environments - displaces water.
- Bonds with soil and concrete.
- Closed cell.

## FIELD OF APPLICATION

- Shutting down gushing leaks.
- Sealing leaks in manholes.
- Sealing pipe penetrations.

## APPLICATION

**Note:** the following are a few typical application descriptions. In case of other jobsite parameters, please contact our technical department.

### PRELIMINARY ANALYSIS



For leaking cracks/joints, identify if the crack or joint runs vertically or horizontally. Injection holes have to be angle drilled into the crack or joint. For leaking cracks, drill the injection holes in a zig-zag pattern around the crack to make sure that the injection hole intersects the crack. In manhole applications, drill holes directly through the manhole infiltration at spot locations.

### PREPARATION OF THE PRODUCT

Read the technical and safety data sheets prior to commencement of the injection works. Vigorously shake the SPETEC BOOM! SEAL cartridge before use. In cold climates under 40F, pre-condition material by storing in heated environment or other means of applying heat such as blanket or wraps.

### PREPARATION OF THE EQUIPMENT

Insert cartridge into Alchemy-Spetec (300ml x 300ml) dual cartridge manual gun.

### APPLICATION

- Drill a hole all the way through the wall of the structure, about half a foot above the leak. No hole may be required if there is room to insert the static mixer in the defect.

- Tap the static mixer into the hole until it is tightly secured. Pull back the plungers on the dual cartridge gun, insert the cartridge and remove the end caps from the ends.
- Quickly insert the end of the cartridge into the nut at the end of the static mixer, ensuring not to point the cartridge down.
- Pump dual cartridge gun thoroughly until the grout is all injected, the hole won't accept any more grout, or foam starts leaking out of the crack.

### REQUIRED TOOLS

Drill and drill bits of appropriate diameter and length. Dual cartridge manual gun. Plastic static mixer.

### CLEANING AND MAINTENANCE

After injection, fill the holes with a fast setting cement or any other appropriate filler material. Plug and cap the cartridge for future use of unused product. In the event cross-contamination occurs, dispense cartridge.

### COMPLIMENTARY PRODUCTS

Oakum. Dual component 1:1 hand tool.

### ADVICE / FOCAL POINTS

Avoid injecting when temperatures are below -4°F (-20°C). In extreme cold conditions it is recommended to warm the resin.

## TECHNICAL DATA

### APPEARANCE

Physical Properties - Cured

SPETEC BOOM! SEAL			
Compressive Strength	(ASTM D-1621)	22 p.s.i. or 3,168 p.s.f.	1,517 millibar
Expansion	(Unconfined)	35 times	-
Density	(ASTM-D 1622)	1.8 to 2.2 lb/ft3	28.83 to 35.24 kg/m3millibar
Shrinkage	(ASTM D-1042/D-756)	None	-
Closed Cell Content	(ASTM D-2856)	90%	-
Water Absorption	(ASTM D-2127)	1% by Volume	-
Exothermic Reaction Rate	-	Low	-

Properties will vary depending on application conditions.

## CONSUMPTION

Consumption has to be assessed on site and is influenced by the severity of leak, thickness of substrate, and crack width. Liquid resin volume is approximately 40 cubic inches, or 22oz., per dual-cartridge.

## REACTION TIMES

Reaction Time @ 77° F / 25° C

Initial Reaction Time	15 seconds
Tack Free	125 seconds 90%
90% Full Strength	15 minutes

## PACKAGING

SPETEC BOOM! SEAL is supplied in 325 x 325 ml Cartridges / Case of 12

## SHELF LIFE AND STORAGE

Store between 50° - 80° F (10° - 26° C).

## SAFETY PRECAUTIONS

Avoid contact with eyes and skin, always use personal protective equipment in compliance with local regulations. Read the relevant Safety Data Sheet before use. Safety Data Sheets are available on [www.alchemy-spetec.com](http://www.alchemy-spetec.com)

When in doubt contact Alchemy-Spetec Technical Service.

FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. READ SAFETY DATASHEET PRIOR TO EVERY USE.