

SAUEREISEN

MANHOLE CHIMNEYSEAL NO. F-88

Sauereisen Manhole ChimneySeal No. F-88 is an elastomeric lining composed of fiber-reinforced, asphalt-modified urethane. ChimneySeal is used as a chemical-resistant membrane or gasket seal for the prevention of water infiltration.

Manhole ChimneySeal has excellent adhesion to most substrates. As a high solids elastomer, it is recommended when movement from temperature change or other causes will be encountered.

Manhole ChimneySeal maintains excellent elasticity and adhesion over a temperature range of -30°F to 250°F. The flexible barrier resists freeze/thaw stresses and movement. When subjected to mechanical stress, the lining has nearly 100% recovery. Manhole ChimneySeal also resists alkalis, salts and acid.

CHARACTERISTICS

- o Outstanding chemical resistance to acids and alkalis.
- o Remains flexible from -30°F to 250°F.
- o Easy to apply by hand.
- o Urethane-based elastomer.
- o Suitable for application on steel, brick or concrete substrates.
- o Excellent elasticity.

AREA PREPARATION

Temperature of Working Area

Maintain an optimum temperature of 60° - 85°F on air, substrate and material during mixing, application, and cure. Store material in the range of 65° - 80°F for at least 48 hours before use.

Surface Preparation

Surfaces should be made free of oil, grease, water, and other contaminants that may inhibit bond. This can be achieved by chemical cleaning.

PHYSICAL PROPERTIES

Abrasion Resistance ASTM (D-4060)	534 mg/1,000 cycles
Elongation ASTM (D-638)	126.4 %
Shore A durometer Hardness ASTM (D-2240)	48
Tensile strength (ASTM D-638)	54.1 lb./in ²
Water Absorption ASTM (D-570)	0.05%
Hydrostatic Pressure (ASTM C 497)	80 ft water head (35psi)

Physical properties were determined on specimens prepared under laboratory conditions using applicable ASTM procedures. Actual field conditions may vary and yield different results; therefore, data are subject to reasonable deviation.

Brick - The working substrate must be dry and firm enough to withstand imposed loads during normal operation. Mechanical methods should be utilized to remove old paints, coatings, and deteriorated mortar or brick.

Abrasive blast or high-pressure water blast brick to obtain a uniform, sound substrate. All prepared surfaces must be allowed to dry prior to the Manhole ChimneySeal application.

Concrete - The working substrate must be dry and have the necessary strength to withstand imposed loads during normal operation. For applications where Manhole ChimneySeal is recommended. All voids should be filled with Sauereisen Underlayment No. F-120 or Filler Compound No. 209. The choice of underlayment will depend on the severity of the voids to be filled.

Abrasive blast or high-pressure water blast concrete to remove laitance and to obtain a uniform surface texture exposing fine aggregate resembling coarse sandpaper.

Regardless of preparation method used, all surfaces must be free of any loose deposits or contamination.

Metal - Abrasive blast or mechanically abrade the metal surface to a nominal 2.5 mil profile employing a SSPC-SP 6 Commercial finish. All protrusions should be ground smooth to eliminate sharp edges.

APPLICATION

Mixing

Packaging consists of premeasured, unitized containers of Hardener Part A and Resin Part B. Completely empty contents of Hardener Part A into Resin Part B. Using a slow speed 1/2 inch drill motor affixed with a "Jiffy" type blade, mix for 5 minutes. Thorough mixing of this material is very important.

Mix only complete batches. Material which has begun to set must be discarded. Do not add any adulterants to either component or mixed material.

Installation

Manhole ChimneySeal is self-priming and applied at various thicknesses depending upon specification design parameters. Manhole ChimneySeal is easily applied by gloved hand (neoprene or rubber). The most practical method of applying the product within small diameter structures is to wipe the material on with a gloved hand or trowel.

SETTING/CURING

Curing of the ChimneySeal lining is by chemical reaction. While Manhole ChimneySeal has an approximate working time of 45 minutes, initial set occurs in about one hour at 70°F. Manhole ChimneySeal cures to a semi-soft, elastomeric state. Protect the installation site from water or chemicals prior to cure for 48 hours.

TESTING

For specific applications, a holiday detector can be utilized to ensure a continuous, pinhole-free lining. Pinhole testing should occur after 24 hours at 70°F using a Tinker & Razor Holiday Detector or similar model. Voltage will be dependent on coating thickness. Consult a Sauereisen representative for details.

COVERAGE

Following is typical coverage of No. F-88:

1-Gallon Unit

12.8 ft² at 1/8-inch (125 mils) thick

Actual coverage may vary depending on jobsite conditions and surface irregularities.

CLEAN-UP

All equipment should be cleaned with a general orange solvent or mineral spirits within one (1) hour after use and after each day's use. If removal is required after cure, consult Sauereisen for recommendations.

PACKAGING

1-Gallon Unit

Hardener Part A-.65 lbs in a pint container
Resin Part B - 6.9 lbs in a 2-gal. pail

SHELF LIFE

Sauereisen Manhole ChimneySeal has a shelf life of one (1) year when stored in unopened, tightly sealed containers in a dry location at 70°F. If there is a doubt as to the quality of the materials, consult a Sauereisen representative.

CAUTION

Consult Material Safety Data Sheets and container label Caution Statements for hazards in handling these materials.

WARRANTY

We warrant that our goods will conform to the description contained in the order, and that we have good title to all goods sold. WE GIVE NO WARRANTY, WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE OR OTHERWISE, EXPRESS OR IMPLIED, OTHER THAN AS EXPRESSLY SET FORTH HEREIN. We are glad to offer suggestions or to refer you to customers using Sauereisen cements and compounds for a similar application. Users shall determine the suitability of the product for intended application before using, and users assume all risk and liability whatsoever in connection therewith regardless of any suggestions as to application or construction. In no event shall we be liable hereunder or otherwise for incidental or consequential damages. Our liability and your exclusive remedy hereunder or otherwise, in law or in equity, shall be expressly limited to our replacement of non-conforming goods at our factory or, at our sole option, to repayment of the purchase price of non-conforming goods.

- o **Distributors and agents in major cities throughout the world. Consult manufacturer for locations.**
- o **Information concerning government safety regulations available upon request.**
- o **Sauereisen also produces inorganic compounds for assembling, sealing, electrically insulating and grouting.**

SAUEREISEN ...since 1899
160 Gamma Drive
Pittsburgh, PA 15238-2989 USA
Phone 412.963.0303 Fax 412.963.7620
www.sauereisen.com