

SAUEREISEN

SEALING CEMENT NO. 33S

A versatile high temperature cement for:

Assembling
Casting
Insulating
Potting
Sealing

Sauereisen Sealing Cement No. 33S is a chemical-setting, inorganic, silicate-base cement that is used for assembly/sealing applications common to electrical equipment. It is ideal for coating molds and forms used to produce special shapes and patterns. No. 33S is supplied in powder form and need only be mixed with water to apply.

CHARACTERISTICS

- Insulates electricity.
- Withstands temperatures to 1600°F (827°C).
- Heat conductive and thermal shock resistant.
- Resists oil, solvents and most acids (except hydrofluoric).
- Safe to use/non-toxic.
- Adheres to metal, ceramics, glass and other surfaces.
- Odorless.
- Hardens by chemical set even in confined areas.
- More economical than organics.

APPLICATION

Sauereisen No. 33S Powder should be thoroughly remixed before using. Weigh out 75-80% of No. 33S Powder and 20-25% potable water. Place measured amount of water into a clean mixing container and gradually add the No. 33S Powder while mixing. Continue mixing until a smooth uniform consistency is obtained. Mixing may be done with a slow-speed mixer or by hand with a spatula.

PHYSICAL PROPERTIES

Coefficient of thermal expansion	9.48 x 10 ⁻⁶ /F° (17.06 x 10 ⁻⁶ /C°)
Color	White
Compressive strength @ 7 days	1,460 psi (102 kg/cm ²)
Flexural strength @ 2 days	250 psi (17 kg/cm ²)
Maximum service temperature	1600°F (827°C)
Modulus of rupture @ 7 days	431 psi (30 kg/cm ²)

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.

No. 33S may be mixed to a thinner consistency by regulating the amount of water used; however, the use of excess water will reduce mechanical strength, increase shrinkage and delay set time. Failure of cement to adhere indicates setting has begun - discard cement. Do not attempt to retemper by adding more water. Porous substrates may require dampening with Sauereisen Thinning Liquid No. 14 before applying the mixed cement.

SETTING/CURING

No. 33S hardens with an internal chemical-setting action in 18-24 hours at ambient temperatures. Working time of No. 33S when Powder is mixed with water is approximately 30 minutes at 70°F. If it is desired to accelerate the cure, oven drying at 180°F can be used. Avoid steaming while drying. If the cement will be exposed to elevated temperatures, contact Sauereisen for appropriate drying schedule recommendations.

If high humidity resistance is required and it is impractical to fire cement, a moisture-resistant lacquer or silicone coating should be applied to the exposed surfaces.

PACKAGING

1-qt. and 1-gal. cans;
50-lb. pails lined with a plastic bag

CLEAN-UP

All equipment should be cleaned with soap and water before No. 33S cures. If removal is required after cure, consult Sauereisen for recommendations.

SHELF LIFE

Sauereisen No. 33S Powder has a shelf life of one 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 material, consult Sauereisen.

CAUTION

Consult Material Safety Data Sheets and container label Caution Statements for any hazards in handling this material.

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 nonconforming goods at our factory or, at our sole option, to repayment of the purchase price of nonconforming goods.

Information concerning government safety regulations available upon request.

Sauereisen also manufactures products for corrosion resistance, electrostatic discharge protection and machinery grouting.

SAUEREISEN ...since 1899

160 Gamma Drive
Pittsburgh, PA 15238-2989 USA
Phone 412/963-0303 Fax 412/963-7620
www.sauereisen.com