ALUSEAL ADHESIVE CEMENT NO. 2 and No. 2 POWDER & LIQUID

Strong ceramic adhesive for:
Assembling  Insulating
Sealing  Bonding
Thermal Conductivity

Sauereisen Aluseal Adhesive Cement No. 2 is a ceramic cement paste offering good bond strength and thermal shock resistant properties for assembling, sealing and cementing porcelain, glass, metal and other materials. Its fine particle size and excellent flow characteristics make No. 2 a good candidate for those applications where an inorganic bond is required between component parts and only small clearances are available.

No. 2 exhibits good coating properties. Thin film sections have shown exceptional flexural and tensile strength for a ceramic adhesive. Sauereisen No. 2 is supplied as a ready-mixed paste and may be applied by brushing, dipping or spraying. No. 2 is suitable for use on production lines with mechanical dispensers or applicators because it will not harden in the equipment during normal operation.

Aluseal Adhesive No. 2 is also available in a separate powder and liquid and known as Sauereisen Aluseal Adhesive Cement No. 2 Powder & No. 2 Liquid. When mixed together at the proper ratio, No. 2 Powder & Liquid has the same characteristics as the No. 2 Paste.

CHARACTERISTICS
☐ Heat conductive
☐ Thermal shock resistant
☐ Insulates electricity
☐ Good mechanical bond

PHYSICAL PROPERTIES

Coefficient of thermal expansion
200-1000°F  7.6 x 10^-6/F°
(93-538°C)  14.87 x 10^-6/C°

Color  White

Compressive strength @ 7 days  3,600 psi (253 kg/cm²)

Density  153 pcf (2.45 gm/cm³)

Dielectric constant @ 70°F (21°C)  107.2

Dielectric strength @ 70°F (21°C)  48-55 volts/mil. (2000 volts/mm)

Dissipation factor @ 70°F (21°C)  0.55

Maximum service temperature
Pyrometric cone equivalent (ASTM C-24)  3,000°F (1649°C)

Modulus of rupture  3400 psi (239 kg/cm²)

Shrinkage  0.5-2.5%

Volume resistivity @ 70°F (21°C)  10^8 x 10^10 ohm-cm

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.

INSTRUCTIONS

Mixing
No. 2 should be thoroughly remixed to a smooth, uniform consistency prior to use. In some cases, setting may occur during transport and storage.

Aluseal Adhesive Cemnt No. 2 Powder & liquid should be mixed at a ratio of 70% powder to 30% liquid by weight. or (2.5 : 1)

Application
Surfaces to receive No. 2 should be clean and free of grease and dirt. Porous substrates should be dampened slightly with Sauereisen Thinning Liquid No. 14 prior to application.

No. 2 should be used in thin applications; apply several coats where a heavy layer is desired. In multiple coat applications, each coat must be thoroughly dry prior to applying additional coats. If necessary, Thinning Liquid No. 14 should be used where the No. 2 cement is required in a thinner consistency.

Minimum amount of liquid should be used as excess liquid reduces mechanical strength, increases shrinkage and delays set time. No. 2 should not be applied at a thickness greater than 1/4 inch.

SETTING/CURING

No. 2 cures by air drying at room temperature. Drying time depends on the consistency and thickness of the application. Normally 18-24 hours drying at ambient temperature is sufficient. When the cement has minimal exposure to air, or if it is desired to accelerate the cure, low temperature oven drying at 180°F may 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 No. 2, a moisture-resistant lacquer, silicone coating, or Sauereisen Hi-Temp Primer No. 560 should be applied to the exposed surfaces.
PACKAGING

No. 2: Paste
1-quart cans, 1-gallon cans;
and 5-gallon pails.

No. 2 Powder & Liquid
Powder: 1-quart cans, & 1-gallon
cans
Liquid: 1-quart cans & 1 gallon
cans

CLEAN-UP

All equipment should be cleaned with
soap and water before No. 2 cures. If
removal is required after cure, a low con-
centration of sodium hydroxide may dis-
solve the cement. Consult Sauereisen
for other recommendations.

SHELF LIFE

Sauereisen Aluseal Adhesive Cement
No. 2 has a shelf life of six months when
stored in unopened, tightly sealed con-
tainers in a dry location at 70°F. If there
is doubt as to the quality of the material,
consult Sauereisen.

Sauereisen Aluseal Cement No. 2
Powder & Liquid has a shelf life of 1 year
when not mixed together and stored in
unopened, tightly sealed containers in a
dry location at 70°F. If there is 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 OTHER-
WISE, EXPRESS OR IMPLIED, OTHER
THAN AS EXPRESSLY SET FORTH
HEREIN. We are glad to offer sugges-
tions or to refer you to customers using
Sauereisen cements and compounds for
a similar application. Users shall deter-
mine the suitability of the product for
intended application before using, and
users assume all risk and liability whatso-
ever in connection therewith regardless of
any suggestions as to application or con-
struction. In no event shall we be liable
hereunder or otherwise for incidental or
consequential damages. Our liability and
your exclusive remedy hereunder or oth-
erwise, 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 pur-
chase price of nonconforming goods.

☐ Information concerning govern-
ment safety regulations available
upon request.

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

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