

Glassbond Sauereisen Aluseal Adhesive Cement No.2

Characteristics

- Thermal shock resistant
- Heat conductive
- Electrically resistant
- Easy to mix and apply
- Good mechanical bond
- Withstands temperatures to 1649°C (3000°F)

Recommended For

Assembling
Sealing
Insulating
Bonding

Description

Aluseal Adhesive Cement No. 2 is a ceramic cement paste offering excellent bond strength and thermal shock resistant properties for assembling, sealing and/or 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. Aluseal No. 2 exhibits good coating properties, and thin film sections have shown exceptional flexural and tensile strength. Aluseal No. 2 is supplied as a ready mixed paste and may be applied by brushing, dipping or spraying. Also it is suitable for use on production lines with mechanical dispensers or applicators because it will not harden in the equipment during normal operation.

Physical Properties

Coefficient of thermal expansion,200-1000°F (93-538°C)	7.6 x10 ⁻⁶ /°F (14.87 x 10 ⁻⁶ /°C)
Colour	White
Compressive strength	3600 psi (253 kg/cm ²)
Density	153 pcf (2.45 gm/cm ³)
Dielectric constant @ 70°F (21°C)	107.2
Dielectric strength @ 70°F (21°C)	48-55 Volts/mil (2000 Volts/mm)
Dissipation factor	0.55
Maximum service temperature	3000°F (1649°C)
Modulus of rupture	3400 psi (239 kg/cm ²)
Shrinkage	0.5-2.5%
Volume resistivity @ 70°F (21°C)	10 ⁸ - 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. Data should not be used for specification purposes.

Application/Instructions

MIXING - Aluseal No. 2 should be thoroughly remixed to a smooth, uniform consistency prior to use.

APPLICATION - Surfaces to receive No. 2 should be clean and free of grease and dirt. Porous substrates should be dampened slightly with Thinning Liquid No. 14 prior to application. Aluseal 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 amounts of liquid should be used as excess liquid reduces mechanical strength, increases shrinkage and delays set time. Aluseal No. 2 should not be applied in a thickness greater than 1/4".

Setting/Curing

Aluseal 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 82°C (180°F) is recommended. Avoid steaming while drying.

Cleaning

All equipment should be cleaned with soap and water before No. 2 cures. If removal is required after cure, consult Glassbond.

Packaging

This material is supplied in various types and sizes of containers. Please contact Glassbond Sales for further details.

Shelf Life

Aluseal No. 2 paste has a shelf life of six months when stored in unopened, tightly sealed containers in a dry location at 21°C (70°F). If there is any doubt as to the quality of the material, consult Glassbond.

Caution

Consult the Material Safety Data Sheet 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. Users shall determine the suitability of the product for intended application before using.

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