

Glassbond Sauereisen Potting Cement No. 32

Characteristics

- Heat conductive and thermal shock resistant
- fireproof and gas proof
- Withstands temperatures to 2012°F (1100°C)
- Resists oil, electricity, solvents and most acids (except hydrofluoric)
- Adheres to metal, ceramics, glass and other surfaces
- Odourless
- Non Halogen

Recommended For

Assembling
Sealing
Potting
Insulating
Moulding
Refractories

Description

Potting Cement N° 32 is a chemical setting refractory cement, that exhibits an extended pot-life. For ideal performance, the cement should be heat cured at 65°C (150°F) to induce a final set after application. The cement is suitable for bonding ceramics, glasses and most metals. Cement N° 32 can be applied in thicker applications without deformation.

Physical Properties

Colour	Off white
Compressive strength	2500 psi (17.2 MPa)
Density wet	2.09 g/cm ³
Density	1.72 g/cm ³
Dielectric strength @ 70°F (21°C)	1.3 kVolts/mm (35 Volts/mil)
Filler	silica
Maximum particle size	595 microns
Maximum service temperature	2012°F (1100°C)
Mix ratio w/w	100:18 (powder :water)
pH value	10.5
Pot life @ 23°C	8 hrs
Coefficient of thermal expansion	6.9 x 10 ⁻⁶ /°C (3.8 x 10 ⁻⁶ /°F)

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 - No. 32 powder, is mixed with water at the ratio of 100:18, by weight. weigh out the powder and water separately. Place the measured amount of powder into a clean mixing container and gradually add the water while mixing. Continue mixing until a smooth consistency is obtained. Mixing may be done with a slow speed mixer or by hand with a spatula depending upon requirements. Minimum amounts of liquid should be used, however, because excess liquid will reduce mechanical strength, increase shrinkage and delay set time.

APPLICATION – The N° 32 Cement paste may be applied by brushing, dipping, rolling or spraying. Cement N° 32 paste is suitable for use on production lines with mechanical dispensers because the cement will not harden in the equipment during normal operation (working life approximately 8 hours). Surfaces to receive the cement should be clean and free of grease and dirt. As an air-setting adhesive, the cement should be used in thin applications.

Setting/Curing

Cement N° 32 is chemically setting but should be heat cured between 65–82°C (150–180°F) to induce final set. Drying time depends on the consistency and thickness of the application. Without heat cure the cement may take 48 hours or more to fully harden depending upon ambient conditions. Avoid steaming while forced drying. If the cement will be exposed to elevated temperatures, contact Glassbond 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.

Cleaning

All equipment should be cleaned with soap and water before N° 32 cures. If removal is required after cure, mechanical means if often the only option. Consult Glassbond.

Packaging

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

Shelf Life

Cement N° 32 Powder has a shelf life of one year when stored in unopened, tightly sealed containers in a dry location at 21°C (70°F). If there is 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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