GS POLYMERS, INC.
Polyurethane • Epoxy • Adhesives • Castings

GSP 1331-1

Technical Data Sheet

General Description

Cost Effective Potting Compound/Adhesive

GSP 1331-1 is an economical, two-part, flowable epoxy adhesive/potting compound. It imparts low stress to internal components upon cure allowing for larger casting sizes. **GSP 1331-1** has a 1:1 mix ratio which eases processing and handling. The product is resistant to settling and can be packaged in a dual syringe.

Component Properties

Property	GSP 1331-1A	GSP 1331-1B
Shelf Life	6 months	6 months
Density (lb/gal)	11.07	9.92
Viscosity	16,500 Brookfield RV7, 100 rpm	32,500 Brookfield RV7, 50 rpm
Color	Black	Light tan

Handling Properties

Property	GSP 1331-1
Mix Ratio by Weight	100 A: 100 B
Mix Ratio by Volume	1A: 1B
Pot Life	1-2 hours
Gel Time	4 hours
Cure Time	24 hours at room temp or 30 min at 220F

Physical Properties

Property	GSP 1331-1
Hardness	89D
Color	Dark Gray
Dielectric Strength (V/mil)	434 (ASTM D149-97a Method A)
Dielectric Constant (k)	3.20 (ASTM D150-98)
Volume Resistivity (Ω•cm)	6.080E+15 (ASTM D257-99)

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INSTRUCTIONS FOR USE

The recommended method of application for this product is with prepackaged, side-by-side ratio tubes using a dispenser and a static mix nozzle. To ensure an accurate mix ratio when dispensing material through a static mixer, discard the first material extruded from the mixer. Product can now be used for potting. Static mixers and dispensers are available from GS Polymers. Contact the sales department for further information.

To avoid air entrapment in the epoxy while dispensing, hold the nozzle of the static mixer under the surface of the epoxy being dispensed.

TO MIX BY HAND: Proportion out components according to parts by weight or volume ratio into a non-reactive container (polyethylene, polypropylene, or metal de-rimmed can). Container should be about five times larger than the volume of the mixed material. Mix components very thoroughly, preferably with a metal spatula, scraping the sides and bottom of container to incorporate all material.

Note: During application, do not scrape sides or bottom of the container used for mixing. Residual amounts of poorly mixed material may be incorporated. Such material may fail to cure completely, and may not achieve full physical properties.

CURING INSTRUCTIONS

Mix Ratio by Volume:

Mix one part of **GSP 1331-1 A** to one part of **GSP 1331-1 B**.

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET (MSDS) PRIOR TO USING THIS PRODUCT.

Notice to User:

The following is made in lieu of all warranties, expressed or implied. Seller's and manufacturer's only obligation shall be to replace such quantity of product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for his intended use, and user assumes all risks and liability whatsoever in connection therewith. The foregoing may not be altered except by an agreement signed by officers/owners of G.S. Polymers, Inc.

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