

Technical Data Sheet

GENERAL DESCRIPTION

Polyurethane Electrical Potting System for Smaller Masses

GSP 1539-4 is a fast-curing polyurethane potting system ideal for small volume potting applications. This material provides superior adhesion to vinyl coated wires, and has good flexibility and hydrolytic stability. It could also be used as a mold-in-place potting system.

Features are:

- Quick curing
- Excellent adhesion to vinyl coated wires
- Low viscosity, and contains no solvents. 100% reactive

COMPONENT PROPERTIES

Property	GSP 1539-4 A	GSP 1539-4 B
Shelf Life	6 months	6 months
Density (lb/gal)	9.61	8.71
Color	Amber	Amber

HANDLING PROPERTIES

Property	GSP 1539-4
Mix Ratio by Weight	55 A : 100 B
Mix Ratio by Volume	1 A : 2 B
Pot Life	2 min
Gel Time	6 min
Cure Time	1-3 hours at room temp

PHYSICAL PROPERTIES

Property	GSP 1539-4
Hardness	60 A
Color	Amber
Dielectric Strength (V/mil)	312 (ASTM D149-97a Method A)
Dielectric Constant (k)	5.17 (ASTM D150-98)
Volume Resistivity ($\Omega \cdot \text{cm}$)	8.220E+10 (ASTM D257-99)

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 applied directly to the bonding surface. Static mixers and dispensers are available from GS Polymers. Contact the sales department for further information.

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. Material should be used immediately.

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:

1 part by volume **GSP 1539-4 Part A** to 2 parts by volume **GSP 1539-4 Part 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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