

Technical Data Sheet

GENERAL DESCRIPTION

Thixotropic Polyurethane Adhesive

GSP 1542 is a two-component polyurethane structural adhesive system. When applied, it almost instantly becomes a non-sag gel. This tough material bonds very well to many substrates including many plastics, metals and wood. **GSP 1542** is a good mix of high shear strength and peel strength. **GSP 1542** has good chemical resistance in oil and aqueous environments. Convenient 1:1 mix ratio.

Features are:

- Convenient mix ratio
- Contains no solvents. 100% reactive
- Good physical properties and shear/peel balance
- Good balance of chemical resistance

COMPONENT PROPERTIES

Property	GSP 1542 Part A	GSP 1542 Part B
Shelf Life	6 months	6 months
Density (lb/gal)	10	10.35
Viscosity (cps)	10,000	50,000
Color	Brown	Black

HANDLING PROPERTIES

Property	GSP 1542
Mix Ratio by Weight	100 A : 100 B
Mix Ratio by Volume	100 A : 100 B
Viscosity, Mixed	Instantly thixotropic
Pot Life	15 min (thin bead)
Gel Time	30 min (thin bead)
Cure Time	7 days at RT

PHYSICAL PROPERTIES

Property	GSP 1542
Hardness	70 Shore D
Color	Black
Lap Shear (grit blasted aluminum)	3000+psi
Peel Strength (grit blasted aluminum)	50+pli

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.

If working time allows, transfer material to a clean container without scraping sides or bottom before applying. 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 1542 Part A** to 1 parts by volume **GSP 1542 Part B**.

Pot Life: Do not mix more than can be applied in 12-13 minutes. Gel time is about 30 minutes but will vary depending on the mass mixed and the ambient temperature.

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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