

GSP 1750

EPOXY ADHESIVE

Chemical, Temperature, and Adhesive Performance

GENERAL DESCRIPTION

GSP 1750 is a two-part epoxy adhesive system. When applied, the semi-thixotropic material forms a slow-flowing, white bead. It provides 15-20 minutes of workable time before it gels. When cured, it has excellent chemical & heat resistance.

GSP 1750 provides excellent adhesion to many substrates, including metals and blasted stainless steel.

FEATURES

- Raw materials conform to FDA CFR 175.105
- Convenient mix ratio (4:1 parts by volume)
- Contains no solvents. 100% reactive
- 20 minute working time
- Excellent adhesion to primed metals
- Excellent chemical & heat resistance
- Cures in 20 minutes at 250°F

COMPONENT PROPERTIES

PROPERTY	GSP 1750 PART A	GSP 1750 PART B
Shelf Life	6 months	6 months
Density (lb/gal)	13.13	13.02
Viscosity	~550,000 Spindle RV-7 @ 2 rpm	~40,000 Spindle LV-4 @ 10 rpm
Color	White	Tan

HANDLING PROPERTIES

PROPERTY	GSP 1750
Mix Ratio by Weight	100A :24B
Mix Ratio by Volume	4A : 1B
Pot Life	15 min
Gel Time	20 -30 min
Cure Time	2-3 hours at room temp. 20 min at 250°F (121°C)

PHYSICAL PROPERTIES

PROPERTY	GSP 1750
Hardness	90 Shore D
Color	White
Tensile Strength, R.T., psi	7,000*
Flexural Strength, R.T., psi	13,000*
Compressive Strength, R.T., psi	20,000*

*Conservative estimates based upon virtually identical products.

INSTRUCTIONS FOR USE

DOUBLE-BARREL CARTRIDGE: The recommended method of application for this product is with prepackaged, side-by-side ratio cartridge using a dual-piston 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.

Note: Since this material gels in about 20-30 minutes, mix time and de-airing should be done within 5-10 minutes.

Remove the air entrapped during mixing by placing the container of mixed material into a vacuum chamber. Under vacuum, the level of mixed material will rise and then drop with strong bubble breaking action. Do not allow the contents to rise over the top of the container. Allow the material to de-gas (de-air) until the liquid level drops and bubbling is minimal. Release vacuum. If working time allows, transfer material to a clean container without scraping sides or bottom before applying. If working time does not allow transfer, 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: 4 parts by volume **GSP 1750 Part A** to 1 part by volume **GSP 1750 Part B**.

Pot Life: Do not mix more than can be applied in 15 minutes. Gel time is about 20-30 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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