

## Technical Data Sheet

### GENERAL DESCRIPTION

#### IMPACT RESISTANT EPOXY ADHESIVE

**GSP 1790** is a two-part epoxy adhesive system. When applied, the semi-thixotropic material forms a slow-flowing, bead. It provides about 45 minutes of workable time before it gels. When cured, it has excellent chemical, heat, and impact resistance. **GSP 1790** provides excellent adhesion to many substrates, including metals and blasted stainless steel.

Features are:

- Excellent impact resistance
- Convenient mix ratio (4:1 parts by volume)
- Contains no solvents. 100% reactive
- 30 - 45 minute working time
- Excellent adhesion to metal and stainless steel
- Excellent chemical & heat resistance
- Cures in 20 minutes at 250 °F

### COMPONENT PROPERTIES

Property	GSP 1790 Part A	GSP 1790 Part B
Shelf Life	6 months	6 months
Density (lb/gal)	13.28	12.90
Viscosity	250,000 Spindle RV-7 @ 2 rpm	~40,000 Spindle LV-4 @ 10 rpm
Color	Off-White	Tan

### HANDLING PROPERTIES

Property	GSP 1790
Mix Ratio by Weight	4A : 1B
Pot Life	30 min
Gel Time	45 - 60 min
Cure Time	2-3 hours at room temp. 20 min at 250 °F

### PHYSICAL PROPERTIES

Property	GSP 1790
Hardness	90 Shore D
Color	Off-White

## **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.

**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 1790 Part A** to 1 part by volume **GSP 1790 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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