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

GSP 1710

Technical Data Sheet

General Description

Chemical, Temperature, and Adhesive Performance

GSP 1710 is a two-part epoxy adhesive system. When applied, the semi-thixotropic material forms a slow-flowing, black bead. It provides 15-20 minutes of workable time before it gels. When cured, it has excellent chemical & heat resistance. GSP 1710 provides excellent adhesion to many substrates, including metals and blasted stainless steel.

Features are:

- Convenient mix ratio (4:1 parts by volume)
- Contains no solvents. 100% reactive
- 20 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 1710 Part A	GSP 1710 Part B
Shelf Life	6 months	6 months
Density (lb/gal)	13.13	12.92
Viscosity	~550,000 Spindle RV-7 @ 2 rpm	~32,000 Spindle LV-4 @ 10 rpm
Color	Black	Tan

Handling Properties

Property	GSP 1710
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 1710
Hardness	90 Shore D
Color	Black

195 Arovista Circle • Brea, CA 92821 • 714.672.0567 *phone*
714.672.0987 *fax* • www.gspolymers.com • sales@gspolymers.com

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: 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 than 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 1710 Part A to 1 part by volume GSP 1710 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.

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