GS POLYMERS
Polyurethane & Epoxy Products

Technical Data Sheet

GSP 1603-6DS

POLYURETHANE POTTING COMPOUND

Side-By-Side Cartridge, 90 Shore A, 10 – 20 min Gel Time

GENERAL DESCRIPTION

GSP 1603-6DS is a version of GSP 1603-5 that has been modified to allow packaging in a side-by-side (sbs) cartridge. **GSP 1603-6DS** is a cost effective, two-component, polyurethane compounds specifically developed for electrical potting encapsulation.

FEATURES

Contains no solvents
Excellent adhesion
Excellent hydrolytic resistance
Available 1A:4B side-by-side cartridge

COMPONENT PROPERTIES

PROPERTY	GSP 1603-6DS PART A	GSP 1603-6DS PART B
Shelf Life	9 months	9 months
Density (lb/gal)	10.00	12.85
Viscosity (cps)	Low/Flowable	10000
Color	Brown	Black

HANDLING PROPERTIES

PROPERTY	GSP 1603-6DS
Mix Ratio by Weight	19.4 A : 100 B
Mix Ratio by Volume	25 A : 100 B
Gel Time	10 – 20 minutes
Cure Time	Overnight @ room temperature

PHYSICAL PROPERTIES

PROPERTY	GSP 1603-6DS
Hardness	85 – 95 Shore A
Color	Black
Water Absorption	<0.1%
Dielectric Strength (V/mil)	323 (ASTM D149-97a Method A)
Dielectric Constant (k)	3.83 (ASTM D150-98)
Volume Resistivity (Ω·cm)	4.932_E^15 (ASTM D257-99)

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INSTRUCTIONS FOR USE

SIDE-BY-SIDE (SBS) CARTRIDGE:
The recommended method to ensure an accurate mix ratio when dispensing material from a SBS tube through a static mixer nozzle is as follows:

1. Remove the nozzle tip-cap by twisting and pulling it off. Do not discard tip cap unless all the material in SBS tube is used. Save for reattachment to seal remaining material in the SBS tube.
2. Extrude enough material until there is an even flow of material from both openings. Discard this material extruded from the SBS tube.
3. Attach the mix static nozzle by twisting it on the nozzle tip. Extrude material until ~2-3 cm (~1 inch) of material has extruded. Discard this material extruded from the mixer.
4. Material can now be applied directly to the bonding surface.
5. When application is complete and there is still material remaining in the SBS tube, remove and discard the static mix nozzle.
6. Clean the tip-cap thoroughly to prevent cross contamination of the tip openings.
7. Attach tip-cap back onto the SBS tube.

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. It is the customer's responsibility to determine fitness of use for all GSP products by directly testing the materials first-hand for each application. Please fully evaluate the materials so as to convince yourself of appropriate and adequate performance. Before using, customer shall determine the suitability of the product for the intended use, and customer assumes all risks and liability whatsoever in connection therewith.

The only obligation of the seller or manufacturer 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. The foregoing may not be altered except by an agreement signed by officers/owners of G.S. Polymers, Inc.

Prepared: 11/14/2006 MPS
Revised: R1-7/20/11 AG/bn

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