

ANCHOR SEAL
Product # SY3005T

5/21/09

Epoxy 1-Component

Features:

- Long stable shelf life
- Thermally conductive
- Abrasion resistant
- Heat & chemical resistant
- Pre-mixed convenience

Applications:

- Electrical encapsulation
- Transducers
- Sensors, coils
- Thermally conductive adhesive
- Limited drip through

Curing Instructions:

Mix Ratio: Pre-catalyzed, no measuring required.

Cure Schedule: Gel time, 30-60 minutes @ 250-300°F.

Cure 2-4 hours @ 250°F.

Cure thick sections, 8-16 hours @ 200-225°F.

Properties @ 77°F, Uncured:

Viscosity.....	limited flow
Shelf Life, factory sealed cans, months.....	12
Weight / gallon, lbs.....	17

Physical Properties @77°F, Cured:

Color.....	charcoal-black
Durometer (Hardness) Shore D.....	92-95
Tensile Strength, PSI.....	6,500
Flexural strength, psi	10,000
Specific Gravity, grams/cc.....	2.3
Heat Distortion Temp. °C	140
Moisture Absorption, 7 days @ 25°C, %.....	0.1
Service Temperature, °C.....	-50 to 170
Thermal Expansion, cm/cm/°C x 10 ⁻⁶	35
Chemical & water resistance.....	excellent

Electrical Properties @ 77°F, Cured:

Dielectric Strength, ASTM D149, volts/mil	400
Dielectric Constant, ASTM D150, 1 KHz	6.7
Volume Resistivity, ASTM D257, Ohm-cm.....	10 ¹⁵

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IMPORTANT INFORMATION: READ BEFORE USING PRODUCT

Directions for Use: *Stir contents before using.* Because of differences in density, *pigments and fillers when present, may separate* from the liquid components during storage. To insure product homogeneity and maximum performance, check the containers for settling. Loosen any settled pigments from the bottom of the container and *thoroughly mix contents prior to use.* Use a mixing stick or power mix at slow speed with a drill press and dispersion blade. Do not overheat. *This product might crystallize* in its shipping container during storage. If it appears hard, or has a granular consistency, or if it is normally clear but appears cloudy, warm it thoroughly at 110°F to reconstitute. Remix the product before using. **Caution:** Warming a pre-catalyzed epoxy for extended periods of time will shorten its shelf life and cause premature thickening and curing.

Measuring: Not required with one-component precatalyzed products.

Mixing: Needed only if ingredients have separated. Do not mix excessive air into the mixture. Do not overheat.

De-airing: Low viscosity resins will de-air naturally on their own. Some applications require a totally air-free product. If a vacuum pump and chamber are used, evacuate the material for 5-15 minutes @ 28-29 inches of mercury. Allow sufficient space above the liquid for expansion, about four times the liquid volume. Resins slightly warmed are thinner and will de-air faster. Also, the use of an air-out additive will lower the surface tension and hasten air release. **Caution:** Warming a catalyzed mixture will shorten the pot life and decrease gel time.

Surface preparation: To obtain maximum adhesion, the surfaces to be bonded must be free of grease, oil, dust, mold release, and water. Consult Tech Service for recommended surface treatments.

Storage: Store the product away from sunlight and open flames, at a stable temperature of less than 85°F. Cooler temperatures will extend shelf life, but may contribute to crystallization or freezing of the resin. Keep containers tightly sealed when not in use. Air and moisture will decrease shelf life and will adversely affect properties.

Handling Cautions: Review the Material Safety Data Sheet before using this product.

Warning! For Industrial use only. All chemicals must be handled with care. Avoid breathing fumes, mists and dust, they could cause respiratory discomfort or damage. Work in a well-ventilated area. Avoid all contact with the skin. If contact occurs, wash affected area thoroughly with soap and water. Repeated skin contact may cause dermatitis in susceptible individuals. Wear protective clothing and gloves. Severe irritation will result if this product is splashed into the eyes. Always wear eye protection. If eye contact occurs, flood eyes with clear water for 15 minutes and immediately seek medical attention. Always maintain good industrial hygiene when using this product.

Notice To Buyer: All information contained herein is believed to be accurate. However, it is the responsibility of the end user to determine the suitability of this product in his particular application. As the use of this product by others is beyond our control no warranty whether expressed or implied is made by Anchor-Seal, Inc. or any of its representatives as to this product's merchantability or fitness for a particular purpose. Under no circumstances shall Anchor-Seal, Inc. be liable for incidental, consequential or other damages for any reason. The sole liability of Anchor-Seal, Inc. shall be to refund the purchase price or replace materials deemed to be defective by us.