Data Sheet



Scotchlok 0 3570

Connector Sealing Packs

Product Description

ScotchlokÔ 3570 Connector Sealing Packs insulate and provide protection for electrical spring connectors against dust, soil, water, and other environmental elements. Each sealing pack contains a specific amount of ScotchcastÔ 400 epoxy resin and will accommodate one ScotchlokÔ Y, R, G, B, 3M Brand 212, 312 or 512 electrical spring connector. Scotchcastô 400 electrical insulating resin is a two-part epoxy insulating and encapsulating resin. This resin, mixed in its unique container bag, generates its own heat to cure. Its compatibility with spring connectors makes 400 resin an excellent insulator and sealer for electrical spring connections

Resin Features

- Thermosetting, therefore will never melt or run once it cures
- Generates its own heat to cure
- Oil resistant
- Bonds to itself
- Tough
- Stable at elevated temperatures (up to 121°C)
- UnipakÔ container bag for mixing the resin and encapsulating the appropriate spring connectors
- Excellent multi-purpose moisture sealing resin

Applications

- To insulate electrical spring connectors
- For potting and protecting a wide variety of electrical spring connections
- For sealing against dust, soil, water, and other environmental elements

Data: Physical and Electrical Properties Physical Properties - Resin

Color	Black
Hardness	75 Shore
	D

ASTM D-2240	
Tensile Strength	3500 p

ASTM D-412 **Elongation**

ASTM D-412

2 weeks @ 250°F

(121°C)

Glass Transition

remperature	
(by DTA) 3M test method	(20°C
Heat Aging - Weight Loss	
1 week @ 250°F (121°C)	1.9%

Hydrolytic Stability - Weight Gain

1 week boiling water 4.6%

Electrical Properties - Resin

Dielectric Strength	500 v/mil
ASTM D-149	

Dielectric Constant (60 Hz)

ASTM D-150	
73°F (23°C)	3.9
140°F (60°C)	4.8
194°F (90°C)	5.9
221°F (105°C)	6.6

Dissipation Factor (60 Hz)

ACTM D 450

A3 1101 D-130	
73°F (23°C)	2.5%
140°F (60°C)	5.7%

	140°F (60°C)			5.7%
	194°F (90°C)			9.2%
1	221°F (105°C)			>20%
		_	_	_

Note: This data is not to be used _{osi} for specifications. Values listed are for typical properties and should not be considered minimum or 20% maximum.

Specifications

Product

2.9%

The material must be supplied in a two-part polyethylene bag with a barrier separating a prepolymer and a polyol. The barrier must be capable of being broken to permit mixing the two parts without opening the bag.

Engineering/Architectural

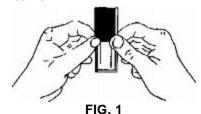
The material must be ScotchcastÔ 400 epoxy resin. It must be packaged in the 3M UnipakÔ two-part polyethylene bag. The resin must be mixed within the UnipakÔ container simply by separating the barrier between the two parts of the bag and between the two parts of the bag and the bag.

Installation
Turn power off before installing
connector, then make connection
per manufacturer's instructions. All
electrical work should be done
according to appropriate electrical

codes.

When temperature is below 50°F (10°C), keep resin in warm place prior to mixing (for example, in an inside pocket next to the body).

- 1. Thoroughly clean and dry the surface of the substrate to which the material is desired to bond.
- **2.** Remove guard bag, using caution not to damage
- **3.** Grip both edges of bag at the center barrier (*FIG. 1*), and wrinkle and flex the bag across the barrier. This will weaken the barrier.



- **4.** Squeeze the CLEAR SIDE of the resin, forcing the resin through the center barrier.
- **5.** Mix thoroughly to a uniform color by squeezing contents back and forth 25-30 times.
- **6.** Squeeze resin to one end of bag, and cut off other end (*FIG. 2*).

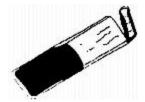


FIG. 2

7. Slowly insert connection into sealing pack until it fits snugly against the opposite end (FIG. 3).



FIG. 3

8. Wrap open end of bag with Scotch Brand Super 33+ Vinyl Electrical Tape and position the taped end up until resin jells (*FIG. 4*).



FIG. 4

Refer to Material Safety Data Sheet for health, safety and precautionary information. (512) 984-5670

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Maintenance

ScotchlokÔ 3570 Connector Sealing Packs are stable for a period of two vears from date of manufacture providing the Guard Bag (the white aluminized bag) is not opened when stored under the following recommended storage conditions. Store behind present stock in a clean dry place at a temperature of 70°F (21°C) and 40 to 50% relative humidity. Good stock rotation is also recommended. If the guard bag is removed the shelf life could be reduced to as little as two weeks under conditions of high humidity. A ScotchlokÖ 3570 Connector Sealing Pack is not impaired by freezing; however it should be warmed to at least 32°F (0°C) before being mixed or poured.

Availability

3M Scotchlok 5 3570 Connector Sealing Packs are available from your local 3M authorized distributor in the following size:

Size G (6.7 grams) 10/box

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