



Scotchcast™ Reenterable Electrical Insulating Resin 2123

Data Sheet



CABLE JOINTS, CABLE TERMINATIONS, CABLE GLANDS, CABLE CLEATS
FEEDER PILLARS, FUSE LINKS, ARC FLASH, CABLE ROLLERS, CUT-OUTS

11KV 33KV CABLE JOINTS & CABLE TERMINATIONS
FURSE EARTHING
www.cablejoints.co.uk

Thorne and Derrick UK
Tel 0044 191 490 1547 Fax 0044 191 477 5371
Tel 0044 117 977 4647 Fax 0044 117 9775582

Product Description

3M™ Scotchcast™ Reenterable Electrical Insulating Resin 2123 is a soft, two-part polybutadiene resin encapsulant designed especially for reenterable splice protection. Scotchcast 2123 is formulated for virtually every electrical application requiring a soft, reenterable resin with good handling and performance characteristics. Scotchcast 2123 is also used as the insulating material for cable splices operating at 1000 volts or less and is rated for continuous use at 194°F (90°C) with an overload rating of 266°F (130°C). It may be stocked to cover all reenterable resin needs, ending the need for multiple encapsulant inventories.

This resin is a two-part polybutadiene and is formulated with excellent wetting properties and low viscosity. Scotchcast 2123 flows well even at low temperatures, filling the closure and minimizing voids. Resin should be warmer than 40°F (4.4°C) for mixing and pouring.

Scotchcast 2123 is packaged in the convenient 3M™ two-part Unipak™ bag. The contents of the Unipak bags are:

Size C	12.3 ounces (350 gms)
Size D	21.1 ounces (600 gms)
Size H	52.8 ounces (1500 gms)

Resin Features:

- Bonds to most cable jackets
- Bonds to itself and existing Scotchcast™ 2112
- Reenterable
- Unipak container for easy mixing and pouring
- Excellent multi-purpose moisture sealing resin

Other Applications

- To replace or repair the jacket on both single and multicore power cables.
- To seal the crotch or sheath when terminating multicore cables.

Physical and Electrical Properties

Physical Properties

Test Method	Typical Value*
Color	Amber, Transparent
Density	0.53 oz/in ³ (0.91 g/cm ³)
Tensile Strength (ASTM D-412)	10.7 psi (0.75 Kg/cm ²)
Elongation (ASTM D-412)	300%
Tear Strength (ASTM D-624)	1.6 lb/in at 75°F (595 N/m at 24°C)
Maximum Exotherm (100 g) (3M Test Method)	6°F rise (3°C rise)
Gel Time @ 73°F (23°C)	62 min.
Moisture Absorption (ASTM D-570)	0.2%

Electrical Properties

Test Method	Typical Value*
Insulation Resistance (MS 17000, Section 1182)	> 4 x 10 ¹¹ ohms
Dielectric Strength (ASTM D-149)	>240 V/mil @ 23°C 125 mils thickness
Dielectric Constant (ASTM D-150)	<1.2 100 Hz, 23°C
Dissipation Factor (ASTM D-150)	0.0008 100 Hz, 23°C

* These are typical values and should not be used for specification purposes.

Storage

Scotchcast™ 2123 resin is stable for a period of two years from the 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 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.

Availability

3M Scotchcast 2123 resin is available from your electrical distributor.

Refer to Material Safety Data Sheet for health, safety and environmental information.

3M and Scotchcast are trademarks of 3M Company.

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

3M

Electrical Markets Division

6801 River Place Blvd.
Austin, TX 78726-9000
800/676-8381
Fax: 800/828-9329
www.3M.com/electrical/oem



*Printed on 50% recycled paper
with 10% post-consumer*

Litho in USA
© 3M 2004 78-8126-6567-3