

3M™ Scotchcast™ Potting Kit 2135

Data Sheet

May 2008

Product Description

3M™ Scotchcast™ Potting Kit 2135 is designed to meet NEC requirements to allow the use of rigid, non-metallic conduit in the installation of wet-niche underwater lighting fixtures. The 2135 potting kit helps provide protection against corrosion and possible deteriorating effects of fresh swimming pool water, fountain water and sunlight by reliably encapsulating the 8 AWG ground connection in wet-niche shell, as required by NEC Article 680.23(13)(L2)(b). The 2135 potting kit has also been UL listed for use in underwater junction boxes [NEC 680.522(B)].

The kit contains enough 2135 potting compound to encapsulate one connection, and is used only where adhering to copper, copper alloy and stainless steel materials. The 2135 compound is a Thixotropic urethane resin provided in an easy mix 1.8 oz. closed mixing pouch. At temperatures above 40°F (18°C) the compound will firm up in minutes. It is designed not drip or sag. Encapsulated connections can be submersed within 4 hours of application.

Kit Contents

Each kit contains enough material to complete one fixture.

- 1 3M™ Scotchcast™ Potting Compound 2135
- 1 Cleaning Pad Kit
- 1 Applicator Stick
- 1 Pair of Gloves

Regulatory Agencies



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Typical Properties

This data is not to be used for specifications. Values are typical and should not be considered minimum or maximum.

| Typical Properties | |
|--|--------------|
| *All values shown are typical. They are based on several determinations and are not intended for specification purposes. Product specifications will be provided upon request. | |
| Property | Value |
| Specific Gravity | |
| Prepolymer (Part A) | 1.08 g/cc |
| Polyol (Part B) | 1.29 g/cc |
| Mixed | 1.23 g/cc |
| Viscosity | |
| Prepolymer (Part A) | 1250 cps |
| Polyol (Part B) | 4250 cps |
| Gel Time – 100 g | 15.5 min. |
| Maximum Exotherm – 100 g | 59°C |
| Modulus | |
| T100 | 566 psi |
| T Break | 1107 psi |
| Elongation | 208% |
| Hardness (Shore) | A-85 |
| Water Absorption (% wt. gain) | |
| 1 week @ 100°C | 2.67% |
| Glass Transition Temp | -78°C |
| Dielectric Strength | |
| 125 Mils | 314 V/mil |
| Coefficient of Expansion | 226 PPM |
| Temp. Range | 20-110°C |
| Tear Strength | |
| Die | 145 lbs./in. |
| Dissipation Factor – 60 Hz | |
| 24°C | 3.76% |
| 60°C | 4.91% |
| 90°C | 7.45% |
| 105°C | 17.70% |
| 120°C | 28.90% |
| Heat Aging – Wt. Loss | |
| 1 week @ 121°C | 0.52% |
| 2 week @ 121°C | 0.55% |
| 3 week @ 121°C | 0.59% |
| 1 week @ 136°C | 1.76% |
| 2 week @ 136°C | 2.82% |
| 3 week @ 136°C | 3.60% |
| Adhesion – Copper | 35 lbs./in. |

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