

3M Scotchcast™ Resin Pressure Method Jointing using Resin 40G

Product Description

3M™ Scotchcast™ Resin 40G is a non-filled, two component polyurethane resin for room temperature curing. The resin has been designed for electrical insulation and mechanical protection of electrical cable joints. The 40G resin is classified as LIW (low voltage insulation water curable) according Cenelec HD 631.1 S2 Standard.

Once cured, the resin provides impact resistance and durability against moisture and atmospheric corrosion.

Continuous operating temperature of installed product; -40°C to + 110°C

Application

3M™ Scotchcast™ Resin 40G provides mechanical protection and electrical insulation of low voltage electrical joints installed for indoor and outdoor, underground and submerged applications. When used in conjunction with resin pressure method components, joints can be completed in any shape and size, including straight or branch configurations up to 3.3kV as well as cable repairs.



Usage Information

3M™ Scotchcast™ Resin 40G resin is supplied in two-chamber plastic pouches with peelable barrier in the correct stoichiometric proportion. This type of packaging will assure the correct mixing ratio for applying the resin.

The resin (once mixed within the pouch) is inserted into the resin pressure delivery gun for injection directly into the joint.

Typical Properties for Scotchcast Resin 40G

Please refer to separate technical data sheet

Product Features

- Versatile – suitable for many cable types and applications
- Finished joint dimension is smaller than conventional methods
- Insulation thickness on the sheath and armour is easily controlled
- Job is complete once the resin is injected, and can be immediately energised
- Suitable for vertical or overhead joints when resin pouring is not practical or possible
- Safe and easy resin delivery
- Compatible with mechanical or compression connectors
- Compatible with 3M armour and earth connection components
- Water resistant
- Mechanically strong
- Particularly suitable for emergency joints when the cable type and size is not known in advance

Installation Pictures



Storage

3M™ Scotchcast™ Resin 40G has a shelf life of at least 36 months when stored between 10°C and 40°C with a humidity level < 75 % in the originally sealed bag.

The expiration date of the product appears on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, it is the responsibility of the user to determine applicability of the resin.

Safety and Handling

3M provides its customers with a product specific Material Safety Data Sheet (MSDS) to cover potential health effects, safe handling, storage, use and disposal information. 3M strongly encourages its customers to review the MSDS on its products prior to their use.

Product Stewardship

3M has a fundamental concern for all who make, distribute and use its products, and for the environment in which we live. This concern is the basis of our philosophy and policies by which we assess the health and environmental information on our products and then take the appropriate steps to protect employee, the public health and the environment.

Customer Notice

3M encourages its customers and potential users of 3M products to review their applications for such products from the standpoint of human health and environmental quality. To help ensure that 3M products are not used in ways for which they were not intended or tested, 3M personnel are available to assist customers in dealing with ecological and product safety considerations.

Regulatory Status

3M™ Scotchcast™ 40G Resin is in compliance to EU directive 2002/95/EC (RoHS) and EU regulation 1907/2007/EC (REACH)

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