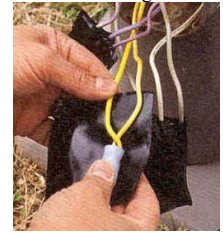




# Scotch® 2200, 2210 Vinyl Mastic Pads and Rolls

## Data Sheet



### Product Description

Scotch Brand 2200 Pads and 2210 Rolls are self-fusing, rubber based insulating compounds laminated to a flexible, all-weather grade vinyl (PVC) backing. These tape rolls and pre-cut pads are designed to insulate, moisture-seal and pad all connections up to 600 volts, and have excellent resistance to abrasion, moisture, alkalies, acid, copper corrosion and varying weather conditions (including sunlight).

### Product Features

- ❖ Polyvinyl chloride (PVC) backing.
- ❖ Compatible Rubber Mastic.
- ❖ Flexible over wide range of temperatures.
- ❖ Highly resistant to ultraviolet light.
- ❖ Easily installed to provide maximum protection.
- ❖ Compatible with all common solid dielectric cable insulation.
- ❖ Usable for indoor or outdoor applications.

### Applications

(600V maximum)

- ❖ Bolted connections.
- ❖ Service drops.
- ❖ Traffic signal wire connections.
- ❖ Lighting connections.
- ❖ Transformer bushing protection.
- ❖ Padding bolted connections on bus bar.
- ❖ Grounding rod connection protection.
- ❖ Terminal protection.
- ❖ Cable end sealing.
- ❖ Secondary compression connections.

### Data – Average Properties

#### Backing

**Composition – All weather polyvinyl chloride (PVC) plastic.**

Colour	Black
Thickness ASTM-D1000	0.18mm
Breaking Strength ASTM-D1000	35.3N/10mm
Elongation ASTM-D1000	200%

### Mastic

**Composition – Highly stable synthetic elastomers and resins.**

Thickness ASTM-D1000

Pad	3mm
Roll	2.1mm

#### Composite (Backing and Mastic)

Thickness ASTM-D1000

Pad	3.2mm
Roll	2.3mm

Adhesion to Steel  
ASTM-D1000 22N/10mm width

Adhesion to Polyethylene  
ASTM-D1000 22N/10mm width

Dielectric Strength  
ASTM-D1000 11kV/mm

Insulation Resistance  
ASTM-D257 >1,000,000

megohms  
Water Absorption  
ASTM-D570 .75%

### Specifications

#### Product

The insulation is a composite of an all-weather polyvinyl chloride (PVC) backing and a thick rubber based, pressure-sensitive adhesive. The product must be applicable at temperatures ranging from -18°C (0°F) to 38°C (100°F) without loss of physical or electrical properties.

The product must not degrade when exposed to various indoor or outdoor environments. It must also be compatible with all synthetic cable insulations and jointing compounds. When used in junction boxes, cable trays or gutters, connectors shall be over wrapped with at least one-half lapped layer of glass cloth tape or varnished cambric tape before applying the product. Or, the entire product build-up shall be over wrapped with two half-lapped layers of an adhesive-coated cloth tape. Where use involves direct burial or continuous submersion in water, the product shall be over wrapped with a minimum of two half-lapped layers of plastic electrical tape.

3M UK PLC  
Electrical Products  
3M Centre, Cain Road  
Bracknell, Berkshire RG12 1JU  
Telephone: 01344 858616  
Fax: 01344 858758

3M Ireland  
Sales Office  
3M House, Adelphi Centre  
Dun Laoghaire, Co Dublin, Ireland  
Telephone: 353 1 280 3555  
Fax: 353 1 280 3509

3M UK PLC  
Sales Office  
PO Box 393  
Bedford MK41 0YE  
Telephone: 01234 229462  
Fax: 01234 229433



# Scotch® 2200, 2210

## Vinyl Mastic Pads and Rolls

### Data Sheet

---

#### Engineering/Architectural Specification

All splices for 600-volt wire rated at 80°C (176°F) and below shall be insulated with “Scotch” Brand 2200 Pad or 2210 Roll. The Vinyl Mastic shall be protected from sharp edges and external pressure from heavy objects by at least a one-half lapped layer of Scotch Brand 27 or 69 Glass Cloth Tape, or Scotch 2510 Varnished Cambric Tape before applying Scotch Vinyl Mastic. Or over wrap the entire Vinyl Mastic build-up with two half-lapped layers of an adhesive-coated cloth tape.

When directly buried or submerged in water, splices shall be over wrapped with a minimum of two half-lapped layers of Scotch Super 33+ or Super 88 Vinyl Plastic Electrical Tape.

#### Important Notice

Technical information provided by 3M is based on experience and/or tests believed to be reliable, but their accuracy is not guaranteed and the results may not be relevant to every user's application. For this reason 3M does not accept responsibility or liability, direct or consequential, arising from reliance upon any information provided and the user should determine the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence. All questions of liability relating to 3M products are governed by the seller's terms of sale subject where applicable to the prevailing law. If any goods supplied or processed by or on behalf of 3M prove on inspection to be defective in material or workmanship, 3M will (at its option) replace the same or refund to the Buyer the price paid for the goods or services. Except as set out above, all warranties and conditions, whether express or implied, statutory or otherwise are excluded to the fullest extent permissible at law.

3M and Scotch are trademarks of the 3M Company. Printed in the UK.  
© 3M United Kingdom PLC, 2003.

**3M UK PLC**  
**Electrical Products**  
 3M Centre, Cain Road  
 Bracknell, Berkshire RG12 1JU  
 Telephone: 01344 858616  
 Fax: 01344 858758

**3M Ireland**  
**Sales Office**  
 3M House, Adelphi Centre  
 Dun Laoghaire, Co Dublin, Ireland  
 Telephone: 353 1 280 3555  
 Fax: 353 1 280 3509

**3M UK PLC**  
**Sales Office**  
 PO Box 393  
 Bedford MK41 0YE  
 Telephone: 01234 229462  
 Fax: 01234 229433