

**3M Scotchcast™ Poly Casting Tape**

**Product Description:**
3M Scotchcast Poly Casting Tape consists of a knitted polyester fabric impregnated with a water activated polyurethane resin. Exposure of 3M Scotchcast Poly Casting Tape to moisture or water initiates a chemical reaction which causes the tape to become rigid. In its unhardened state the resin contains a very low volatility form of di-isocyanate, commonly known as MDI. Air sampling which has been conducted indicates that di-isocyanate is not present in detectable amounts during application of these materials. The limit of detection is 0.0005 parts per million.

**Intended Use:**
3M Scotchcast Poly is intended for use in the construction of most common orthopedic casts, as well as specialized prosthetics and orthotic devices. Specific application suitability should be the responsibility of a qualified, on-site medical professional.

**Precautions**
- **Skin Contact** - Protective examination or surgical gloves must be worn while handling the tape. The polyurethane resin in 3M Scotchcast Poly Casting Tape will adhere firmly to unprotected skin and to clothing. Care should be exercised to avoid contacting unprotected areas of the patient’s skin during application. If resin should come in contact with skin, swabbing lightly with alcohol while uncured, or acetone if resin has cured may help in removing.
- **Water Temperature** - Clean, room temperature (70-75°F/21-24°C) water should be used for application. Caution should be exercised when using warmer than 75°F (24°C) water, as this will increase exotherm. Exotherm is the temperature of the cast while curing.
- **Cast Care** - Patients should be instructed on cast care, including the requirement of keeping the cast dry. Wet casts may result in skin maceration and increased incidence of cast break-down.
- **Cast Removal** - Routine cast removal precautions should be taken to avoid injury to the patient while cutting equipment is being used. Use the recommended “in and out” cast saw method. Always be sure the blade is sharp. A blade that is not sharp will result in heat build-up and possible patient injury.

**Flammability:** 3M Scotchcast Poly Casting Tape meets Class I flammability requirements of Title 16 CFR 1610 (CS191-53). Uncured polyurethane tapes will burn over an open flame.

**Instructions for Use**

**Construction of a Cast:** Preparation of the site, wound management, fracture reduction, postsurgical care and general patient supervision should follow established practices.

1. Slip one or two layers of 3M Stockinet over the affected part, and/or wrap with 3M Cast Padding. If desired, additional cast padding may be used for greater protection of pressure points and bony prominence.

2. Gloves must be worn while wrapping the casting tape since the resin in the tape will transfer and adhere to the skin.

3. Select the desired width of Scotchcast Poly tape. Open only one roll at a time, since room humidity will initiate hardening.

4. Immerse the roll of tape in clean, room temperature (70-75°F/21-24°C) water. **Note:** Three firm squeezes of the roll while it is submerged will give a set time of approximately 4 minutes. To lengthen the set time, immerse the roll and remove it immediately without squeezing. This technique will give a set time of approximately 5 minutes. When using Scotchcast Poly tape, there may be a decrease in slipperiness if the roll is not squeezed while submerged in water. Cooler water will lengthen set time. **Do not use warmer water,** as this will increase exotherm. Exotherm is the temperature of the splint while curing.

5. Construct the cast by wrapping spirally, overlapping the previous turn one-half to two-thirds the width of the tape. As with any cast, take care to avoid excessive tightness. To ensure a snug fit, however, wrap with slight tension on the tape rather than the rolling application common to plaster.

6. Just three or four layers provide a strong nonweight-bearing cast and five to eight layers are typically adequate for weight-bearing cast. Additional layers are generally not necessary for strength and will reduce porosity.

7. Smooth and rub the tape to achieve good contact between layers. Soon after smoothing, the cast can be molded.

8. About 3-5 minutes after immersion in water, Scotchcast Poly is sufficiently rigid to prevent further molding.

9. Allow 30-45 minutes (per MDs discretion) before applying loads to weight-bearing casts.

10. Patients should be instructed on cast care, including the requirement of **keeping the cast dry.** Wet casts may result in skin maceration and increased incidence of cast break-down.

**Cast Removal:** Scotchcast Poly casts may be windowed, trimmed or removed with traditional cast saw equipment. Although most standard saw blades are suitable for use on Scotchcast Poly casts, cutting of these strong, durable casts will be facilitated with the specially designed heat treated steel blades available from 3M.

**Routine cast removal precautions should be taken to avoid injury to the patient while cutting equipment is being used. Use the recommended “in and out” cast saw method.** Always be sure the blade is sharp. A blade that is not sharp will result in heat build-up and possible patient injury.

Exposed edges of the cut cast can be abrasive and care should be exercised to avoid scratches during cast removal.

**Product Storage**
Each roll of tape is packaged in a sealed foil pouch. Care should be taken to avoid puncturing the pouch as this will cause the tape to harden prematurely in the package. It is recommended that this product be stored at room temperature. Storage at higher or lower temperatures may affect the shelf life and handling properties of the tape. Product stored at high or low temperatures should be allowed to return to room temperature before application.

Each pouch should be gently squeezed prior to opening to check suitability for application. The roll should be soft and pliant. Do not use tape that feels hard.

**Explanation of Symbols:**

- **Attention, see instructions for use.**

- **LOT 2010-10 AZ** - The lot in a box and the hourglass symbols are symbols that represent lot number and expiration date. The hourglass is followed by a year and month which represents the expiration date (year and month: 2010-10) The entire line after the hourglass represents the lot number. (2010-10 AZ).

©3M 2003
Scotchcast is a trademark of 3M.