SMTL Dressings Datacard

Product Name:	**DELTA-CAST CONFORMABLE**
Classification Name:	**Bandage Orthopaedic Resin**
Manufacturer:	**Johnson & Johnson Medical Ltd**

Description

Delta-Cast Conformable consists of a knitted polyester fabric, impregnated with a clear polyurethane resin. The fabric used in the construction of Delta-Cast Conformable is slightly extensible in all directions, which makes it very conformable in use. When Delta-Cast Conformable is exposed to moisture vapour or immersed in water, the resin undergoes a polymerisation reaction, which causes the bandage to harden and become rigid. The setting time depends upon the temperature of the dip water, but will typically be about 5-6 minutes. Once set, the cast can be bivalved or windowed, and will be weight-bearing after 30 minutes. A Delta-Cast Conformable cast is lightweight, strong, porous, and translucent to X-rays.

Indications

Delta-Cast Conformable may be used for most secondary casting applications. It is intermediate in strength between Delta-Cast and the fibreglass-based products, and is probably not the product of choice for the formation of weight-bearing casts in very heavy individuals.

Contra-Indications

In common with all polyurethane casting materials, Delta-Cast Conformable should be applied with caution on fresh fractures[*** linked fr-00 ***] where swelling of the injured limb may be anticipated which could make rapid removal of the cast necessary.

Method of use

Delta-Cast Conformable should be applied over a layer of stockinette and orthopaedic padding. Although any suitable product may be used, some workers prefer to use non-absorbent materials based upon synthetic fibres such as polyester, rather than the viscose or cotton-based materials usually used in conjunction with plaster of Paris which will retain moisture, should the final cast become wet. Prior to application, the bandage should be immersed in water at 20 °C, and firmly squeezed four or five times under the surface to ensure complete penetration of water into the body of the bandage but after removal from the dip water, the roll should not be squeezed further.

The bandage should be applied in the form of a spiral, each turn overlapping the previous one by about one-third to one-half of the width. In non-weight-bearing situations 3 - 5 layers of bandage are usually sufficient but 5-7 layers may be required for a weight-bearing cast. If required, splints may be produced from Delta-Cast Conformable, using 3-4 layers of the bandage. The cast may be moulded to its final shape during the last 30 seconds of its setting cycle, after which time it may be windowed or trimmed with shears or a standard cast saw. A cast made from Delta-Cast Conformable may be repaired or reinforced by the application of additional tape but although this will adhere successfully to the existing cast, a complete layer should be applied, if possible, to achieve the maximum adhesive bond. Casts made from Delta-Cast Conformable may usually be removed with plaster shears. A plaster saw is not generally required.

Warnings

Prior to setting, the polyurethane resin will adhere firmly to unprotected skin and clothing. Operators should always wear gloves when handling Delta-Cast Conformable, and care should be taken to ensure that the uncured tape does not come into contact with the patient's skin. Any uncured resin may be removed from the skin by gently swabbing with acetone or ethanol. Once set, Delta-Cast Conformable is not adversely affected by moisture, but immersion of the cast in water is not recommended, as it may prove very difficult to dry the underlying padding.

Presentation

Delta-Cast Conformable is available in the form of a roll, wrapped around a hollow core, and heat-sealed in a poly/foil/poly laminate pouch.

Storage

Two years from the date of manufacture. Unopened rolls of casting tape should be stored in a cool dry atmosphere below 25 °C.

Sizes

5.0 cm × 3.6 m 10.0 cm × 3.6 m

7.5 cm × 3.6 m 12.5 cm × 3.6 m

Revision Details

Revision Author	Dr S. Thomas
Revision No	1.4
Revision date	1997/12/16

Please inform SMTL of any inaccuracies or changes required in this datacard.

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