

# MOLDCARE RI II

## PATIENT IMMOBILIZATION DEVICE

### Introduction

MOLDCARE RI II, a base material (polystyrene beads + hydraulic urethane resin) encapsulated into a polypropylene knit cover material, is a patient fixing device. Injecting water into MOLDCARE RI II by spray, as hydraulic urethane resin in the base material reacts with water to become rigid, it can be molded to fit a patient's posture for diagnosis and medical treatment.

**Instruction Manual**

- Read this instruction manual carefully to fully understand the characteristics of this product before use.
- Keep this manual to hand for easy reference when necessary.

### Precautions for use

#### Warning

- Do not use hot water since **there may be a risk of low temperature burn injuries**. Use water of around 20 to 40°C. Do not use hot water.
- **Precautions for patients with skin disorders** (such as infected wounds, ulceration, rash or swelling) in the affected areas.  
When the product is used, appropriate local control and cautious application are needed. There may be a risk of exacerbation of symptoms.
- If symptoms such as pain, palsy or skin disorders occur during application of the product, stop immediately.
- During and immediately after molding, if a patient complains of heat, immediately detach the product, since heat is generated during hardening.

### Contraindication

- Do not use the fixing gear for any other patient than for whom it was intended. Using it for another patient may cause insufficient holding and fixing of posture, thus preventing proper treatment.
- Do not touch or take out the base material by opening the cover material. **If the water-curing urethane resin in the base material touches the skin, it may irritate the skin. Strictly obey the following: If the skin is touched, wipe off any uncured urethane resin stuck to the skin thoroughly before it cures by using alcohol.** The resin cannot be wiped off after it has cured.
- Do not use this product for patients who are allergic to chemical textiles since polypropylene is used in the cover material.

### Caution

- Should any symptom of skin irritation or redness appear either while using this product to process a fixing gear or during treatment by using the fixing gear, immediately stop using it and **take appropriate measures**.
- Break the seal of the aluminum package one at a time immediately before use. Since the moisture in the air initiates the curing reaction of the urethane resin, leaving this product untouched after breaking the seal will cause its impression characteristic to deteriorate and prevent reproduction of the patient's posture.
- Use the product immediately after the seal is broken. Once the seal is opened, it cannot be stored.
- Do not use the product if the package is broken or a part of the contents is hard.
- Do not put anything on the processed product. It may cause deformation.
- Use lukewarm water to wash off any stains on the product.  
Organic solvents may dissolve the basic material, resulting in deformation of the fixing device.
- The color of the product may change over time, but this causes no problems with subsequent use.

## Processing Procedure

Prepare a spray filled with water, a towel and Mold Care RII to process a fixing gear.

### 1. Inject the water into both sides of the product

Aluminum pack can be opened just before use the product.

Water is injected at 10cm interval evenly on to the both sides of whole area by pressing the spray filled with water onto the surface of the both sides of product. (since the covering material is water-repellent, water does not penetrate without injection).

- Start molding within 3 minutes from breaking the aluminum package, or it would be difficult to mold for getting hard.



### 2. Gently wipe away water and adjust the mold before-hand.

- 1) Gently wipe away drops of water attached to the surface with a towel or similar.
- 2) Place the product on a working table and adjust the height of the product.
- 3) To make molding easier, press in the sites beforehand where the head and neck are to be molded.



### 3. Molding

- 1) Position the patient as required. Lay the patient over the product and hold the product lightly for about five minutes to obtain a mold.
- 2) Harden the product up to almost complete hardness. Do not attempt to correct the shape: this will reduce adherence between the basic materials and weaken the material.



### 4. Remove the patient slowly from the product.

- 1) Remove the patient slowly from the product slowly so as not to distort it.
- 2) At this point, the product is not fully hardened. Please be aware that any extra force may cause deformation or change in shape.



### 5. Harden

Place the product on a working table and let it harden without losing its shape. Leaving it at room temperature for 20 minutes produces enough strength as a fixing device.

- If a fixing device is prepared by immersion hardening, dry sufficiently after hardening. Dry the product at a tilt position, in a place away from direct sunlight. Dry for 24 hours in principle after starting preparation at room temperature.
- Do not dry or harden the product forcibly using hot air from a hair dryer or similar, since it may cause deformation of the molded product.

## Cautions for storage

Methods of storage and preservation

- 1) Avoid exposure to moisture. Store in a cool and dark place, avoiding direct sunlight, high temperatures or humidity.
- 2) Store the product in a horizontal position. Polyurethane resin will slant which may cause the resin to leach into the covering material.

## Duration of Use

The quality is preserved for approximately two years from the date of manufacture when the product is stored appropriately. Expiration label is printed on the label.



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