

FORLONG MEDICAL CO.,LTD

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Indications and Directions for Using Plaster of Paris Bandage



- 1) **Description:** Plaster of Paris is gypsum impregnated onto gauze. When dipped in water a chemical reaction takes place, which begins to harden the plaster according to working time, set by manufacturer. Upon dipping into water, you can then begin to mold the bandage around an object or limb to create a plaster cast.
- 2) **Features:**
 - a) made of cotton gauze coated with natural Plaster of Paris on both sides;
 - b) on a plastic roll;
 - c) high gypsum pulp ratio;
 - d) enable fast and durable immobilization;
 - e) before fixing need to be soaked in a container with water at 20°C temperature;
 - f) do not absorb X-rays (X-ray permeable);
 - g) width: 5 cm, 7.5 cm, 10 cm, 15 cm, 20 cm;
 - h) length: 2.7 cm;
 - i) gauze roll mesh density: 17 threads/cm²;
 - j) variable setting time: ≈3 min / ≈5-6 min / ≈8-12 min
 - k) certificate: CE, ISO 13485:2016
- 3) **Indication:** large and small immobilizing dressings in orthopedic, ambulatory and surgical procedures.

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4) Preparations:

- a) Put all the materials required near to the patient so that you can reach them easily.
- b) Run through the theory of the entire work routine once to enable you to work swiftly.
- c) Pad any points of the patient's body exposed to pressure.
- d) Use plaster lorgnettes for large plaster areas where necessary.
- e) Remove the plaster bandage from the package.

5) Immersing the Bandage:

- a) Check the water is set at the temperature required.
- b) If the plaster bandage is to cover a large area, have one more bucket on hand.
- c) Immerse the bandages into a deep bucket since the air escapes the more quickly the higher the air pressure.
- d) The immersing time is 3-8 seconds depending on different sizes till no bubbles come up.
- e) Immerse the bandage at an angle of 45 degrees to enable the bubbles out more quickly.
- f) One roll to be dipped once, use it just after it is dipped. **Note: Change the water between each application of bandages – never allow the water to become “creamy” as this will interfere with the correct wetting-out.**
- g) Bring the bandage out from the water, use hands to squeeze it from the edges to the centers to get the redundant water out. But immoderate squeezing is forbidden to prevent the missing of the plaster too much.

6) Using the Bandage:

- a) The bandage after immersing and squeezing should be used immediately to prevent the coagulation while not losing the plasticity.
- b) Binding the bandage always has two ways: circling and folding. Do not pull the bandage too tightly. The time from dipping the bandage to finish the whole operation should be controlled according to modeling time. When more bandages must be used, one by one continuously and no stop to prevent losing the plasticity. When binding the bandage, try:
 - to get rid of the bubbles;
 - to conglutinate each layer equably;
 - to decorate the figure to be smooth and beautiful.

Attention!: The above operations must be stopped when the bandage begins to coagulate.

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7) The Bandage's Solidifying, Dryness and Further Treatment:

- a) The solidifying time for bandage starts from dipping into the water and finishes according to modeling time within 3-12 minutes.
- b) Do not put the bandage onto the plastic or foam, and never cover tightly.
- c) Do not wet the bandage after it is solidifies.
- d) If an open wound or severe swelling is covered by a circular plaster bandage, the bandage must be cut open after setting if necessary.
- e) The drying time of approximately ≤ 50 hours is required for the plaster bandage to completely dry out and reach its full and ultimate strength, depending on the environment conditions, patients body temperature, size and thickness of the bandage. Large bandage may take us 5 days to dry out.

8) Preliminary Remarks:

To apply a plaster bandage correctly, it is important to take the following point into account:

a) Water Temperature

The temperature of the water in which the plaster material is immersed is of particular importance for the material's subsequent response and should be between approximately 20°C and 30°C, the temperature can be changed a little according to the air temperature.

b) Degree of Soaking

The degree of which the plaster bandage is soaked through is also important. The more uniformly and thoroughly the bandage is squeezed out after soaking the greater will be its ultimate strength.

c) Plaster Thickness

The plaster bandage must not apply too thickly to too thinly. If the bandage is too thin, there is a risk that it will crack. However, plaster bandage that is too thick, i.e. have more than 15 layers, practically never dry out since the moisture introduced and the transpiration accumulate. 8 layers are suggested to gain enough strength.

d) Staff Required

Three, or at very least, two persons are generally required to apply a plaster bandage, the other aids.

CAUTION AND SAFETY.

The plaster bandage undergoes a geothermic reaction – it heats up as it sets. The reaction usually reaches its peak within 15 minutes. It is not hot enough to burn, but can become uncomfortable for a few minutes. Make sure you warn your patient that there may be some discomfort toward the end of the casting so he or she knows what to expect.

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AVOID SUCH ACTION AS:

- Application of an overly thick cast

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- Inadequate circulation
- Use of too warm dipping water
- Reuse of dipping water

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MODELS:**orthoBAND FAST**

Setting time approx. 3 minutes

Fully dry after approx. 24 hours

Ref No.	dimensions	type of edge	packaging unit plastic bag	bulk packaging carton
OB05270F	5 cm x 2.7 m	straight	1 pc	240 x 1 pc
OB75270F	7.5 cm x 2.7 m	straight	1 pc	120 x 1 pc
OB10270F	10 cm x 2.7 m	straight	1 pc	120 x 1 pc
OB15270F	15 cm x 2.7 m	straight	1 pc	120 x 1 pc
OB20270F	20 cm x 2.7 m	straight	1 pc	60 x 1 pc

orthoBAND Normal

Setting time approx. 5-6 minutes

Fully dry after approx. 24 hours

Ref No.	dimensions	type of edge	packaging unit plastic bag	bulk packaging carton
OB05270N	5 cm x 2.7 m	straight	1 pc	240 x 1 pc
OB75270N	7.5 cm x 2.7 m	straight	1 pc	120 x 1 pc
OB10270N	10 cm x 2.7 m	straight	1 pc	120 x 1 pc
OB15270N	15 cm x 2.7 m	straight	1 pc	120 x 1 pc
OB20270N	20 cm x 2.7 m	straight	1 pc	60 x 1 pc

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**orthoBAND Long**

Setting time approx. 8-12 minutes

Fully dry after approx. 24 hours

Ref No.	dimensions	type of edge	packaging unit plastic bag	bulk packaging carton
OB05270L	5 cm x 2.7 m	straight	1 pc	240 x 1 pc
OB75270L	7.5 cm x 2.7 m	straight	1 pc	120 x 1 pc
OB10270L	10 cm x 2.7 m	straight	1 pc	120 x 1 pc
OB15270L	15 cm x 2.7 m	straight	1 pc	120 x 1 pc
OB20270L	20 cm x 2.7 m	straight	1 pc	60 x 1 pc

Packing:

- each bandage in one polyethylene bag or aluminum foil bag
- private label is acceptable
- 10 or 12 rolls in one zipbag, middle box or airtight plastic tin
- then in strong export carton

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