



Adhesive Promoting Company

ALTO CAST & SPLINT

Your value will be created
by ALTOCHEM.

We have made a valuable history with
our goods and minds. We hope to create
more powerful history with you

INTRO

ALTOCHEM is established in 2002 started as a chemical product manufacturing company supplying industrial adhesives including for medical use. Especially, not only manufacturing synthetic orthopedic casting tape & splint, but also we have been supplying all the raw materials, production lines and techniques to other manufacturers as a total service. With consistent and passionate R&D investment we have been keeping our product's quality superb, which brought us high reputations from all customers.

This made us set a firm footing as a top company in its field and we will lead a new way.

HISTORY

2014-2017

- Promising Export Company Award
- Inno-biz company Award
- Promising Small & Medium enterprise Award by Kyeonggi-Do

2012-2013

- Patent for High Heat Resistant Polymer Resin
- Government Procurement for the Korean Military Hospital

2010

- Patent for Casting Tape
- Patent for Cast Machine

2009

- FDA certified
- CE certified
- ISO 9001 certified
- ISO 13485 certified

2008

- Research institute certified
- Manufacture Medical Devices certified
- KGMP certified

2007

- Venture company certified
- 1,000,000 USD Export Award

2005

- Own facilities completion

2002

- Establish



BUSINESS AREA

Chemical / Electronic

- 01 | Water born Binder & Hardner
- 02 | Coating resin for special purpose gloves
- 03 | Electronic PSA (Pressure Sensitive Adhesive)
- 04 | Electronic heat emission material
- 05 | Vacuum casting resin (PU / Epoxy)
- 06 | Electronic binder
- 07 | Electronic Metal Paste & Ink

Medical

- 01 | Medical adhesives
- 02 | Synthetic orthopedic casting tape & splint
- 03 | Casting tape & Splint production machine
- 04 | Yarn (fiberglass)
- 05 | Fabric (fiberglass, polyester, non-woven)
- 06 | Resin & Additives
- 07 | Production techniques
- 08 | Dehumidification facilities
- 09 | ALTO CMC Thumb Brace™



SO 9001 : 2008
ISO 13485 : 2003

Adhesive Promoting Company

ALTOCAST™

Synthetic orthopaedic casting tape

Historical Memory

20 years technical experiences / 25 Countries exporting records
Korea military hospital supplier for 5 years in a row
Overseas local site installation for manufacturing machine

Fiberglass or Polyester Substrate

ALTOCAST™ is a synthetic orthopaedic casting tape made of knitted fiberglass or polyester substrate impregnated with water-activating polyurethane resin. The fabric is extensible in all directions, which makes it very comfortable in use.

Exposure to any moisture will cause the tape to become rigid.
The setting time is approximately 4 minutes and it takes 20 minutes for full weight bearing.

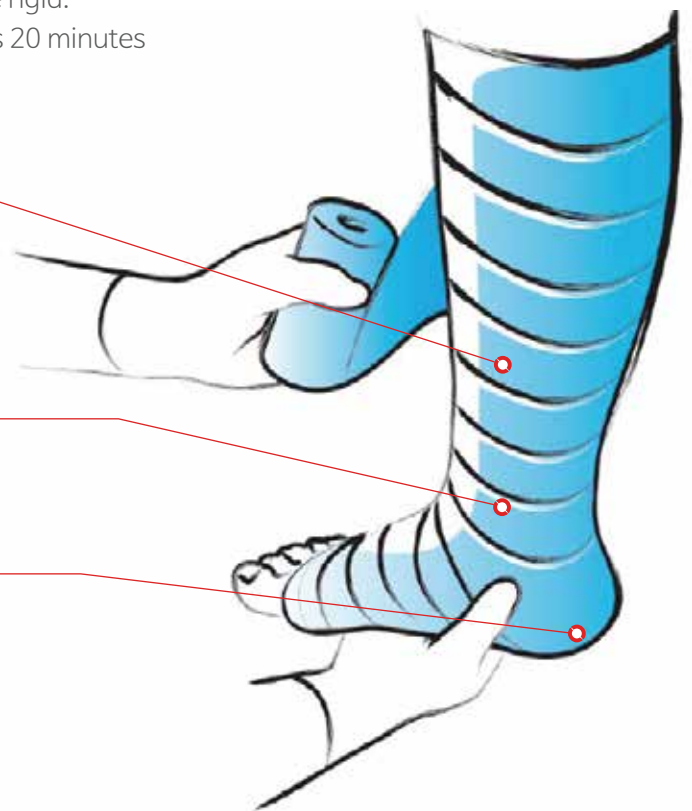
Smooth Finish

High quality knitted substrate and special resin formula provide smooth surface and strong layer adhesion.

Superb and Distinguished Color

Excellent Moulding

Superior multi-direction stretch gives excellent moulding on curved area.



ALTO U-PAD

Under Cast Padding

* Soft touch on skin / * Minimize allergic reaction due to no chemical treatment

Features

- 01 | Provides excellent water repellency and air circulation
- 02 | Elasticity and high thickness relieve the impact.
- 03 | Protection of the skin under casting tape from the growth of bacteria and odor
- 04 | Easy treatment - There is no need to use a cotton bandage, so there is no hassle.
- 05 | Suitable for use with all casting tapes, synthetic, and plaster
- 06 | Available in a variety of widths / Applied to all parts of the body



✓ Lower Price
Higher Density ✓

ALTO U-PAD

Under Cast Padding

◦ Indications For Use



◦ Precaution

1. It should be applied according to the instructions of a doctor or specialist.
2. Do not use contaminated under padding
3. Store the product at room temperature with low humidity.
4. In case of problems, consult with a doctor or specialist

◦ Storage

1. Store the product at room temperature with low humidity.
2. The shelf life is three years.

◦ Product Sizes & Packaging

- 2 inch**(Code no: AUP2100) / Size: 5.0cm x 1000cm (2 inch x 11 yds) / Packaging : 1 Roll/box
- 3 inch**(Code no: AUP3100) / Size: 7.5cm x 1000cm (3 inch x 11 yds) / Packaging : 1 Roll/box
- 4 inch**(Code no: AUP4100) / Size: 10.0cm x 1000cm (4 inch x 11 yds) / Packaging : 1 Roll/box
- 5 inch**(Code no: AUP5100) / Size: 12.5cm x 1000cm (5 inch x 11 yds) / Packaging : 1 Roll/box
- 6 inch**(Code no: AUP6100) / Size: 15.0cm x 1000cm (6 inch x 11 yds) / Packaging : 1 Roll/box





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ALTOSPLINT™

Synthetic orthopaedic Splint

○ Historical Memory

20 years technical experiences/ 25 Countries exporting record Korea military hospital supplier 5years in a row Overseas local site installation for manufacturing machine

○ Fiberglass/Non-woven substrate

ALTOSPLINT™ is a synthetic orthopaedic product intended for the emergency and temporary use. Its outside pads are non-woven fabric and the inside is 7-8 layers of fiberglass or a single layer of non-woven substrate impregnated with water-activating polyurethane resin.

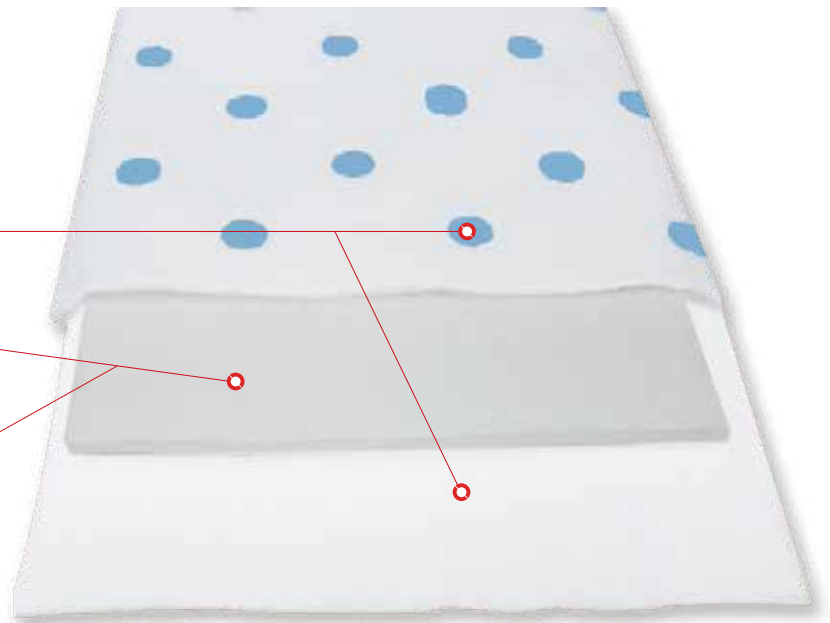
Exposure to any moisture will cause the splint to become rigid.

The setting time is approximately 4 minutes and it takes 20 minutes for full weight bearing.

Hydrophobic non-woven pad

Resin coated
supporting layers

7-8 layers fiberglass **or**
one layer of non woven fabric.

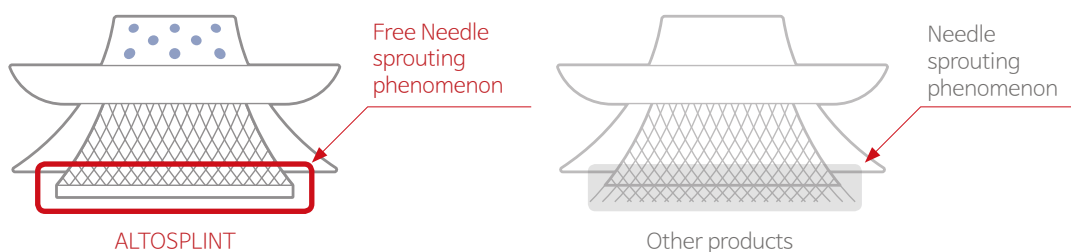


Features

1. **ALTOSPLINT** does not require gloves for application.
2. **ALTOSPLINT** has superb x-ray permeability, which allows taking x-ray with the splint.
3. **ALTOSPLINT** makes it easier to shape the contours of the human body especially bony prominences such as joints, elbows, ankles and heels.
4. **ALTOSPLINT**'s skin-contact-pad(unprinted side) is hydrophobic and non skin-contact-pad (printed side) is thin layer that allows to spray water on the printed side by a sprayer instead of dipping in water, which is easy to use and does not make patients feel unpleasant because of wet skincontact-pad.
5. **ALTOSPLINT** Roll type is economical since you can cut the roll as long as you require
6. **ALTOSPLINT** Pre-cut type is simple to use since it has various lengths.

Free Needle-sprouting phenomenon

When cutting, fiberglass sprouts up and becomes painful needles but our unique heat treatment leaves no hazard.



size	package	type	substrate
2in x 5yds (5.0cm x 4.5m)	1 Roll / In box	 <p>Roll</p>	Fiberglass or Non-woven fabric
3in x 5yds (7.5cm x 4.5m)	1 Roll / In box		
4in x 5yds (10.0cm x 4.5m)	1 Roll / In box		
5in x 5yds (12.5cm x 4.5m)	1 Roll / In box		
6in x 5yds (15.0cm x 4.5m)	1 Roll / In box		
2in x 10in (5.0cm x 25cm)	10 EA / In box		
3in x 12in (7.5cm x 30cm)	10 EA / In box		
3in x 35in (7.5cm x 88cm)	5 EA / In box		
4in x 15in (10.0cm x 38cm)	10 EA / In box		
4in x 30in (10.0cm x 75cm)	5 EA / In box		
5in x 30in (12.5cm x 75cm)	5 EA / In box	 <p>One-step(Pre-cut)</p>	
5in x 45in (12.5cm x 114cm)	5 EA / In box		
6in x 30in (15.0cm x 75cm)	5 EA / In box		
6in x 45in (15.0cm x 114cm)	5 EA / In box		





SO 9001 : 2008
ISO 13485 : 2003

Adhesive Promoting Company

ALTO System

For synthetic orthopaedic casting tape & splint

○ Historical Memory

20 Years technical experiences / 25 Countries exporting recorded
Korea military hospital supplier for 5 years in a row
Overseas local site installation for manufacturing machine

○ The most advanced technologies

ALTO system for the production of casting Tape & Splint is operated by a touch panel, which is over 90% automated so less manpower is required and it is easy to control an uniform quality.



Casting tape Machine

Basic information

Production capacity

casting tape machine – max 2,400 roll/day (8hrs)

Splint machine – max. 1,000 m/day (10 hours)

Machine dimension (Width x Length x Height)

Casting tape machine – 3.5m x 1.4m x 1.8m

Splint Machine – 18.0m x 1.5m x 2.7m

Utility consumption

Electricity: 50 kw except air conditioning facilities

Air Pressure : 7–8 kgf/cm²

Required Site

Raw material storage: About 200m²

Production Area: About 200m²

Products Storage: About 100m²

* Additional spaces for office, laboratory, etc.
should be considered.



Splint Machine

System components	Required manpower
Casting tape machine	For the operation of casting tape machine
Splint Machine	Machine operation and control – 1 person
Air Compressor	Pouch sealing – 1 person
Dehumidifying System	Raw material handling and packing – 1 person
Raw material Drying/Heating System	
Heating oven for resin	
Polyurethane resin mixer & supplier	
Sealing & printing system	For the operation of splint machine
Bobbin cutting system	Machine operation and control – 1 person
Weighing instrument	Pouch sealing and control – 1 person
Laboratory equipment	Raw material handling – 2 person



SO 9001 : 2008
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Adhesive Promoting Company

ALTO Solution

For synthetic orthopaedic casting tape & splint

◉ Raw materials with the proven qualities

ALTOCHEM has been supplying the raw materials for the production of synthetic orthopaedic casting tape and splint to the majority of the manufacturers since 2002. Especially ALTO PU Resin and Fiberglass Tape are the most important key elements to the products quality that we have received high reputations from all users.



◉ Fiberglass/ Polyester Tape

ALTO fiberglass / polyester tape has excellent tensile strength and stretches very well in all directions that allows casting tape and splint high performance in moulding the contours of the human body especially bony prominences such as joints, ankles and heels.

ALTO fiberglass Tape has no needle-sprouting problem. When cutting, fiberglass sprouts up and becomes painful needles but our unique heat treatment leaves no hazard.



◉ Polyurethane Resin

ALTO PU Resin contains special oil instead of surfactant for lubrication. So it is not foamy and not sticky while applying, and its surface is very smooth after hardening.

ALTO PU Resin is designed to be hydrophilic that makes the water reaches deep into the resin. So it has super high compression strength and adhesion between the tape layers.

ALTO PU Resin is being used high quality stabilizer so that it has outstanding storage stability and does not have unpleasant chemical smell and does not produce dioxin by incineration.



◉ Technical Service

ALTOCHEM provides our client with full technical service such as Mass production, PU Resin mixing system, Dehumidification system, QC management, Maintenance.



◉ Etc-Raw materials & Part for ALTO Cast & Splint



www.altochem.com

Chemical & Electronic Products

ALTOCHEM has been manufacturing vacuum molding resin for over 10 years, focusing to develop Heat Emission film, PSA resin also. Finally we have succeeded in develop Heat Emission Film and Paste. We have completed developing Metal paste and adhesive for electronic part as new item and selling for electronic products.

Vacuum Casting Resin



3D Product



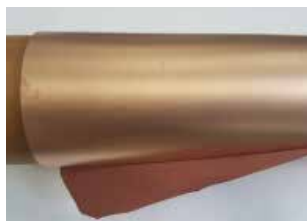
Silicone Mold



Vacuum Casting Products

Raw Materials for Electronic & Special Resin

ALTOCHEM's electronic materials products have excellent electrical and mechanical properties. Our products are using for flexible PCB, LED, Power Module, EMI shielding.



Heat Emission



Special Adhesive
& PSA Resin



Electronic & Special Resin



Other Products : ALTO CMC Thumb Brace™

The ALTO CMC Thumb Brace stabilizes the basal joint of the thumb (CMC-1) and places the thumb's metacarpal (metacarpal 1) in a functional position.

