B. BRAUN WOUND CARE.
RIGHT. FROM THE START.
Millions of people around the world suffer from chronic wounds. Such patients have to come to terms with months of pain and a reduced quality of life and the need for long-term care and treatment. Chronic wound patients and their caregivers would like nothing more than fast, lasting healing.

Successful treatment depends on the hygienic state of the wound, wound bed preparation, choice of wound dressings, the therapist’s experience and last but not least, the patient’s condition.

Wound coatings, bacterial biofilms, pus, necrotic tissue, detritus and particularly, the bacterial biofilm are all factors that can delay or inhibit wound healing. Removing this detritus, otherwise known as “debridement”, accelerates the wound healing process.
B. Braun has developed a comprehensive range of wound care products which enables optimal wound management by supporting and accelerating endogenous healing.

B. Braun Wound Care products focus on every type of wound at each phase of wound healing. By providing innovative solutions such as Prontosan® Wound Irrigation Solution, bacterial biofilm can be efficiently removed thereby clearing the way for the application of advanced wound dressings from the Askina® range, to assist in the complex task of tissue repair.

This guide will help you find the optimal treatment for your patient and wound type by recommending treatment management which is Right. From the start.
## YOUR GUIDE FOR WOUND CARE

<table>
<thead>
<tr>
<th>WOUND DESCRIPTION / STAGE OF WOUND HEALING</th>
<th>LEVEL OF EXUDATE</th>
<th>THERAPEUTIC GOAL</th>
<th>PROCEDURE / ACTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black necrotic wound (non-ischemic) *</td>
<td>Low</td>
<td>Dry necrotic tissue removal</td>
<td>Wound hydration using hydrogel, Mechanical or surgical debridement</td>
</tr>
<tr>
<td></td>
<td>Low</td>
<td>Fibrinous tissue removal, Infection prevention</td>
<td>Mechanical or surgical debridement if needed, wound cleansing, wound hydration</td>
</tr>
<tr>
<td>Dry fibrinous wound</td>
<td>Medium to high</td>
<td>Fibrinous tissue removal, Exudate management</td>
<td>Mechanical or surgical debridement if needed, wound cleansing, enhancing moist environment to promote autolytic debridement</td>
</tr>
<tr>
<td>Moist fibrinous wound</td>
<td>Medium to high</td>
<td>Fibrinous tissue removal, Exudate management, Encourage granulation</td>
<td>Wound cleansing, enhancing a moist environment to promote autolytic debridement</td>
</tr>
<tr>
<td>Fibrinous to granulating wound</td>
<td>Medium to high</td>
<td>Fibrinous tissue removal, Exudate management, Encourage granulation</td>
<td>Wound cleansing, enhancing a moist environment, protecting newly formed tissue and surrounding skin</td>
</tr>
<tr>
<td>Granulating wound</td>
<td>Medium</td>
<td>Exudate management, Encourage granulation</td>
<td>Wound cleansing, protecting newly formed tissue and surrounding skin</td>
</tr>
<tr>
<td>Granulating to epithelializing wound</td>
<td>Low</td>
<td>Absorb remaining exudate, Encourage epithelialization</td>
<td>Wound cleansing, protecting newly formed tissue and surrounding skin</td>
</tr>
<tr>
<td>Epithelializing wound</td>
<td>None</td>
<td>Encourage epithelialization</td>
<td>Protecting newly formed tissue</td>
</tr>
<tr>
<td>Infected wound</td>
<td>Medium to high</td>
<td>Bacterial load reduction, Exudate management, Odour control</td>
<td>Wound cleansing, preventing contamination from external bacteria, enhancing moist wound environment</td>
</tr>
</tbody>
</table>

* in case of peripheral arterial disease, do not hydrate the wound

<table>
<thead>
<tr>
<th>TOPICAL APPLICATION</th>
<th>APPLICATION FREQUENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin at risk</td>
<td>None</td>
</tr>
<tr>
<td>Skin at risk</td>
<td>None</td>
</tr>
<tr>
<td>WOUND CLEANSING &amp; WOUND BED PREPARATION</td>
<td>PRIMARY WOUND DRESSING</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>DEEP</td>
<td>SUPERFICIAL</td>
</tr>
<tr>
<td>Askina® Gel</td>
<td>Askina® Gel</td>
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<tr>
<td>Askina® Gel</td>
<td>Askina® Gel</td>
</tr>
<tr>
<td>Prontosan® Wound Irrigation Solution</td>
<td>Askina® Sorb Rope Askina® Foam Cavity</td>
</tr>
<tr>
<td>Prontosan® Wound Gel</td>
<td>Askina® Sorb Rope Askina® Foam Cavity</td>
</tr>
<tr>
<td>Prontosan® Wound Gel X</td>
<td>Askina® Sorb Rope Askina® Foam Cavity</td>
</tr>
<tr>
<td>Askina® Foam Cavity</td>
<td>Askina® SilNet Askina® DresSil Askina® Transorbent®</td>
</tr>
<tr>
<td>Askina® Foam Cavity</td>
<td>Askina® SilNet Askina® DresSil Askina® Hydro</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Prontosan®</td>
<td>Askina® Calgitrol® THIN Askina® Calgitrol® Paste</td>
</tr>
</tbody>
</table>

**TOPICAL APPLICATION**

| Water and soap | Linovera® | | Twice daily |
| Water and soap | Askina® Barrier Film Askina® Barrier Cream | | Every 1 – 3 days |
Prontosan® Wound Irrigation Solution
- Sterile solution
- Helps prevent biofilm formation
- Well-known substances with low cytotoxic potential
- Compatible with commonly used wound dressings
- Can be used up to 8 weeks after first opening

Prontosan® Wound Gel
- Sterile hydrogel
- Helps prevent biofilm formation
- Well-known substances with low cytotoxic potential
- Compatible with commonly used wound dressings
- Can be used up to 8 weeks after first opening
- Painless application

Prontosan® Wound Gel X
- Sterile, highly viscous hydrogel
- Helps prevent biofilm formation
- Well-known substances with low cytotoxic potential
- Compatible with commonly used wound dressings
- Can be used up to 8 weeks after first opening
- Painless application

Braunovidon® Ointment
- Wound antiseptic
- Spreads easily due to soft fluid consistency
- Liquefies at body temperature
- Available as a cotton gauze coated with ointment

Braunovidon® Ointment Gauze

Superficial Wounds and Burns
Prontosan® Wound Spray
- Unsterile solution
- Prevents biofilm formation
- Prevents MDRO contamination
- Well-known substances with low allergenic potential
- Can be used up to 12 months after first opening
- Painless application

The term "Wound bed preparation" was first described by Falanga et al (2000) and can be defined as overall wound management plan to accelerate endogenous healing and enhance the effectiveness of advanced wound care products. The ultimate aim is to ensure the formation of healthy granulation tissue resulting in a complete wound closure.

Appropriate wound bed preparation in chronic wounds is achieved by:

- Reducing bacterial bioburden in the wound bed
- Removing necrotic tissue and slough
- Controlling exudate
- Managing cellular dysfunctions and biochemical imbalances

### CLEAN.

### EASY WOUND HEALING.

#### WOUND CLEANSING

#### WOUND BED PREPARATION

#### WOUND ANTISEPSIS
Prontosan® Wound Irrigation Solution

THE SOLUTION FOR ACUTE, CHRONIC AND BURN WOUNDS

ADVANTAGES
- Helps prevent biofilm formation
- Prevents infection
- Reduces healing time
- Gentle dressing change
- Well-known substances with low cytotoxic potential
- Compatible with commonly used wound dressings
- Can be used up to 8 weeks after first opening

Prontosan® contains betaine and polihexanide
Betaine reduces environmental biofilm surface tension which results in a maceration of the biofilm and finally allows a better penetration. This mechanism can simply be compared to the functions of a dishwashing detergent.

Polihexanide is an antimicrobial agent with a broad spectrum of biocidal activity. The actions can be described as a non-specific electrostatic interaction with the bacterial cell wall. By attaching polihexanide to the bacterial cell wall, the biological structure of the bacteria is disorganised.

Conventional Wound Irrigation  Prontosan®
USE OF PRONTOSAN® IN NPWT

Negative Pressure Wound Therapy (NPWT) irrigating systems, such as Prontosan® Wound Irrigation Solutions, provide an even more effective means for delivering solutions to complicated wounds by:
- Preventing infection
- Decreasing healing time
- Reducing the risk of amputation

CAUTION: Use on hyaline cartilage and in aseptic joint operations is contraindicated.

INDICATIONS

Prontosan® Wound Irrigation Solution can be used for preventing infections in acute and chronic wounds including:
- Traumatic wounds
- Postoperative wounds
- Chronic skin ulcers (e.g. venous, diabetic or pressure ulcers)
- Burns 1st and 2nd degree

APPLICATION

Before Application

To open the bottle remove distance ring and screw the cap clockwise

Advantages
- Ready to use
- Easy and simple to use
- Direct application using the practical squeeze bottle
- Well-known substances with low cytotoxic potential
- Can be warmed to body temperature
- Can be used on sensitive or irritated skin
- Substantially reduces the risk of further contamination of wounds
- Compatible with commonly used wound dressings

<table>
<thead>
<tr>
<th>Prontosan®</th>
<th>Size</th>
<th>Pcs/Pack</th>
<th>REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pod</td>
<td>40 ml</td>
<td>24</td>
<td>400484</td>
</tr>
<tr>
<td>Bottle</td>
<td>350 ml</td>
<td>1</td>
<td>400403</td>
</tr>
<tr>
<td>Bottle</td>
<td>1,000 ml</td>
<td>1</td>
<td>400446</td>
</tr>
</tbody>
</table>

Composition:
0.1% Polyaminopropyl Biguanide (Polihexanide), Betaine Surfactant, Purified Water
Prontosan® Wound Gel | Prontosan® Wound Gel X

SKIN WOUNDS AND BURNS, CLEANSING AND MOISTENING. FOR THE PREVENTION OF BIOFILM.

ADVANTAGES
- Removes & prevents the formation of biofilm
- Prevents infections
- Reduces healing time
- Gentle dressing change
- Well-known substances with low allergenic potential
- Compatible with commonly used wound dressings
- Can be used up to 8 weeks after first opening

While necrotic tissue and slough can be optimally removed by Prontosan® Wound Irrigation Solution, it is necessary to first remove heavy encrustations by keeping the wound moist for a longer period of time. For this task, Prontosan® Wound Gel and Gel X provides the optimal solution.

INDICATIONS

<table>
<thead>
<tr>
<th>Prontosan® Wound Gel</th>
<th>Prontosan® Wound Gel X</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 ml Pod</td>
<td>250 g tube</td>
</tr>
<tr>
<td>Fluid</td>
<td>Highly viscous</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>• For smaller, deep and tunneling wounds, as well as difficult to reach wounds</td>
<td>• For large surface area wounds, e.g. Ulcus cruris, Decubitus</td>
</tr>
<tr>
<td>• For burn wounds</td>
<td>• For all burn wounds, incl. III. degree</td>
</tr>
<tr>
<td>I. &amp; II. degree</td>
<td>• When large quantities are required</td>
</tr>
<tr>
<td></td>
<td>• Where Prontosan® Wound Gel is too fluid</td>
</tr>
</tbody>
</table>
HINTS AND TIPS

All wounds should first be rinsed and cleansed with Prontosan® Wound Irrigation Solution. Prontosan® Gel and Gel X remain on the wound until the next dressing change. Therefore it has a long acting effect.

INDICATIONS

Skin wounds and burns, cleansing, moistening and decontamination of traumatic wounds
- Postoperative wounds
- Chronic skin ulcers (e.g. venous, diabetic or pressure ulcers)
- Thermal wounds
- Chemical wounds (acid- and alkali-induced)
- Radiation-induced wounds

Bandages and wound dressing moistening

APPLICATION

The choice between Prontosan® Wound Gel and Gel X allows for an optimal application in large surface areas as well as deep wounds.

1. For large surface area wounds apply a 3-4 mm layer of Prontosan® Wound Gel X and cover with a secondary dressing.

2. For application in deep or tunneling wounds, wound cavities and difficult to access areas, apply a 3-5 mm layer of Prontosan® Wound Gel and cover with a secondary dressing.

<table>
<thead>
<tr>
<th>Prontosan®</th>
<th>Size</th>
<th>Pcs/Pack</th>
<th>REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wound Gel</td>
<td>30 ml</td>
<td>1</td>
<td>400505</td>
</tr>
<tr>
<td>Wound Gel X</td>
<td>50 g</td>
<td>1</td>
<td>400517</td>
</tr>
<tr>
<td>Wound Gel X</td>
<td>250 g</td>
<td>1</td>
<td>400508</td>
</tr>
</tbody>
</table>

Composition: 0.1 % Polyaminopropyl Biguanide (Polihexanide), Betaine Surfactant, Purified Water, Glycerol, Hydroxyethylcellulose
Prontosan® Wound Spray

SUPERFICIAL WOUND AND BURN, CLEANSING AND MOISTENING

Prontosan® Wound Spray encourages rapid wound healing by cleansing and moistening superficial wounds and burns.

APPLICATION
Thoroughly spray Prontosan® Wound Spray onto the entire wound and the wound area. By doing so, the risk of infection is reduced and optimal healing conditions are generated. Afterwards, cover the wound with a dressing. Clotted or encrusted dressings can be moistened with Prontosan® Wound Spray in order to easily remove and avoid pain during removal.

HANDLING/APPLICATION TIPS
Rinse off any soaps, ointments, oils, or other wound cleansing substance residues thoroughly prior to using Prontosan® Wound Spray.

ADVANTAGES
- Prevents wound infection
- Encourages wound healing
- Prevents MRSA contamination
- Prevents biofilm formation
- Reduces pain
- Painless application

INDICATIONS
For cleansing, irrigation and moistening of
- superficial acute and chronic wounds
  (e.g. skin lesions, bites, lacerations, abrasions, crush wounds, decubitus ulcers, ulcer cruris, diabetic ulcers)
- superficial burns
Helps with the removal of encrusted bandages.

<table>
<thead>
<tr>
<th>Prontosan® Wound Spray</th>
<th>Size</th>
<th>Pcs/Pack</th>
<th>REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spray bottle</td>
<td>75 ml</td>
<td>20</td>
<td>400565</td>
</tr>
</tbody>
</table>

Composition:
Purified Water, Betaine Surfactant, 0.1 % Polyaminopropyl Biguanide (Polihexanide)
Braunovidon® Ointment | Ointment Gauze

ANTISEPTIC SKIN AND WOUND TREATMENT

EASY & FAST APPLICATION
Braunovidon® Ointment Gauze combines the therapeutic advantages of the well established Braunovidon® Ointment antiseptic with the practical and easy application of therapeutically correct amounts of active ingredients onto the wound.

PROPERTIES
- Spreads easily due to soft fluid consistency
- Liquefies at body temperature
- The greaseless Braunovidon® Ointment formulation is compatible with most wound dressings except for silver-containing dressings with standard and advanced wound dressings
- Active against bacteria and fungi (including MRSA)

INDICATIONS
- Antiseptic treatment for damaged skin (e.g. pressure sores, diabetic ulcers)
- Antiseptic treatment for surface wounds and burns
- Antiseptic treatment for infected dermatosis

*The descriptions of the Braunovidon® products have been produced on the basis of their German authorisations as medicinal products. Both the product names and the authorised indications can vary from one country to another. For exact information, the country-specific summary of product characteristics should always be consulted. Mandatory information for advertising see page 58.

<table>
<thead>
<tr>
<th>Braunovidon®</th>
<th>Size</th>
<th>Pcs/Pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ointment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tube</td>
<td>20 g</td>
<td>1</td>
</tr>
<tr>
<td>Tube</td>
<td>100 g</td>
<td>1</td>
</tr>
<tr>
<td>Tube</td>
<td>250 g</td>
<td>1</td>
</tr>
<tr>
<td>Pot</td>
<td>250 g</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ointment Gauze</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Individually sealed</td>
<td>7.5 cm x 10 cm</td>
<td>10</td>
</tr>
<tr>
<td>Individually sealed</td>
<td>20 cm x 10 cm</td>
<td>10</td>
</tr>
</tbody>
</table>

Ingredients Ointment:
10.0 g povidone-iodine (1.0 g available iodine, active ingredient) per 100 g; macrogol 400, macrogol 4000, purified water, sodium hydrogen carbonate

Ingredients Gauze: cotton fabric, white soft paraffin

1 piece of ointment gauze 7.5 x 10 cm contains: 10.5 g ointment
1 piece of ointment gauze 10 x 20 cm contains: 28.0 g ointment
Low exuding necrotic wounds
Low exuding sloughy wounds
Moderately to heavily exuding wounds

**Askina® Gel**
- Special cannula to facilitate application
- Outstanding hydration properties
- Crystal clear gel for accurate wound assessment
- Exceptional stability; remains in place after application

**Askina® Sorb**
- Optimal conformability, absorbency and gel formation
- Vertical absorption
- Designed for avoiding wound edge maceration
- Comes off in one piece
- Atraumatic, pain-free dressing removal

**Askina® Absorb+**
- High, long lasting absorption capacity
- High retention (no sponge effect)
- Can be used with compression therapy
- Designed for avoiding wound edge maceration
- Soft and flexible even when saturated
## Eschar and Slough Removal

EASY, EFFECTIVE & PAINLESS.

<table>
<thead>
<tr>
<th>Low-exuding necrotic wounds</th>
<th>Low-exuding sloughy wounds</th>
<th>Moderately to heavily exuding wounds</th>
</tr>
</thead>
<tbody>
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Askina® Gel
HYDROGEL WOUND DRESSING

Askina® Gel is a clear, viscous, sterile hydrogel
Askina® Gel by providing a moist environment at the wound surface, assists in the debridement and removal of necrotic and other devitalised material from low exuding wounds. The gel can be used to soften and hydrate necrotic tissue, helping to rehydrate dry granulating wounds.

HOW HYDROGEL WORKS?

Hydrogels have special abilities to adapt to their environment and can either hydrate the wound or absorb exudate. They enable the debridement and removal of necrotic and fibrinous tissue and other devitalised materials.

ADVANTAGES
- Easy one-hand application, from any position
- Remains in place after application
- A special cannula to facilitate application
- Crystal clear gel, provides a more accurate wound assessment

Askina® Gel’s exceptional stability:
At a 90° angle of inclination Askina® Gel does not move for 18 hours.

<table>
<thead>
<tr>
<th>Distance travelled in cm</th>
<th>30 min</th>
<th>60 min</th>
<th>90 min</th>
<th>18 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Askina® Gel</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gel B</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
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Data on file
TIPS FOR APPLICATION

- Askina® Gel should be applied to a depth of at least 5 mm
- Use a transparent polyurethane film, Askina® Derm, to cover Askina® Gel
- Askina® Gel may be left in place for up to 3 days

INDICATIONS

- Low exuding, sloughy or necrotic wounds
- Most types of ulcers
- Pressure sores

APPLICATION

1. Amputation wounds: fibrin and necrotic tissues are present. Mechanical debridement using a scalpel is extremely painful despite the use of major analgesics.

2. A thick layer of Askina® Gel is applied. The application is easy and painless.

3. The gel is then covered by a transparent polyurethane film, Askina® Derm.

4. After one week of treatment, including 3 applications of Askina® Gel, the black necrotic areas could be taken out and the fibrin removed easily. Granulation tissue starts to appear.

Case performed by Dr. Lazareth, Vascular Medicine Department, St. Joseph Hospital, Paris, France

<table>
<thead>
<tr>
<th>Askina® Gel</th>
<th>Size</th>
<th>Pcs/Pack</th>
<th>REF</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>15 g</td>
<td>5</td>
<td>001419 S</td>
</tr>
<tr>
<td></td>
<td>15 g</td>
<td>10</td>
<td>001419 N</td>
</tr>
<tr>
<td></td>
<td>100 g</td>
<td>1</td>
<td>0014291</td>
</tr>
</tbody>
</table>

Composition:
Purified Water, Glycerol, Gelling Agent, Acrylic Polymer

Data on file
Askina® Sorb

HIGHLY ABSORBING ALGINATE DRESSING

ADVANTAGES

- Conformable and easy to apply
- High absorption capacity
- Forms a soft gel which can be removed in one piece, without residue
- Vertical absorption process:
  - No lateral strike through
  - Designed for avoiding wound maceration
- Atraumatic dressing removal

Askina® Sorb is a sterile primary wound dressing made of fibers containing 85% of calcium alginate and 15% of carboxymethylcellulose (CMC). When in contact with wound exudate, the alginate-CMC fibers are fast gelling, resulting from an ionic exchange between calcium ions from the dressing and sodium ions from the exudate, so as to form a soft moist gel conducive to natural healing.

**Strong, fast acting absorption**

Absorption capacity comparison of Askina® Sorb and the leading CMC dressing*

* Surgical Material Testing Laboratory. Report #97/825/1, January 1997
TIPS FOR FIXATION

- Cover with secondary dressing, like Askina® Pad, or Askina® Foam if the wound is heavily exuding
- Secure with surgical tape or bandage

INDICATIONS

Moderately to heavily exuding wounds such as
- Pressure ulcers
- Venous and arterial leg ulcers
- Diabetic foot ulcers
- Donor sites
- Trauma wounds
- Dermal lesions

APPLICATION

1. Example of use for Askina® Sorb Flat Rope
   Highly exuding deep wound. The dressing is inserted directly into the cavity. The wound should not be packed too tightly.
2. Dressing is removed in one piece, without leaving residue in the wound.
3. The structure of alginate/CMC fibres.

<table>
<thead>
<tr>
<th>Askina® Sorb</th>
<th>Size</th>
<th>Pcs/Pack</th>
<th>REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dressing</td>
<td>6 cm x 6 cm</td>
<td>3</td>
<td>2109S</td>
</tr>
<tr>
<td></td>
<td>6 cm x 6 cm</td>
<td>10</td>
<td>2115S</td>
</tr>
<tr>
<td></td>
<td>6 cm x 6 cm</td>
<td>15</td>
<td>2100S</td>
</tr>
<tr>
<td></td>
<td>10 cm x 10 cm</td>
<td>3</td>
<td>2107S</td>
</tr>
<tr>
<td></td>
<td>10 cm x 10 cm</td>
<td>10</td>
<td>2116S</td>
</tr>
<tr>
<td></td>
<td>10 cm x 10 cm</td>
<td>15</td>
<td>2101S</td>
</tr>
<tr>
<td></td>
<td>15 cm x 15 cm</td>
<td>3</td>
<td>2108S</td>
</tr>
<tr>
<td></td>
<td>15 cm x 15 cm</td>
<td>10</td>
<td>2102S</td>
</tr>
<tr>
<td>Flat Rope</td>
<td>2.7 cm x 34 cm</td>
<td>3</td>
<td>2106S</td>
</tr>
<tr>
<td></td>
<td>2.7 cm x 34 cm</td>
<td>10</td>
<td>2105S</td>
</tr>
</tbody>
</table>
Askina® Absorb+ is a highly absorbing dressing which can retain and lock large amounts of wound exudate. It consists of an inner pad made of strong water-retaining polymeric fibers encased in a non-woven outer pouch. In contact with wound exudate the liquid is converted and retained as a soft and flexible gel, which helps clean the wound and maintain a moist environment.

**ADVANTAGES**
- High, long lasting absorption capacity
- High retention (no sponge effect)
- Gradual absorption without “Gel Lock”
- Remains soft and flexible even when saturated
- Low adherent wound contact surface
- No “dry spill” of superabsorbent material

**HOW IT WORKS**

The inner pad is made from fibers combined into one:

1. Cellulosic fiber for dispersion & lateral wicking
2. Super absorbent fiber for high absorption capacity
3. Bicomponent fiber for binding and strength

The absorption process is gradual and uniform allowing to absorb and store large quantities of exudate.

**No “Gel Lock” effect:** As there is no powder content, there is no gel formation around particles to block further absorption leaving the inside of the particle dry.

**Absorbency w/w, g**

<table>
<thead>
<tr>
<th>Competitor superabsorbent dressing</th>
<th>Askina® Absorb+</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight of liquid absorbed after 1h per gram of dressing</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>20</td>
</tr>
</tbody>
</table>

**Saturated Askina® Absorb+**
- Low profile
- Soft and flexible

**Saturated competitor superabsorbent dressing**
- High profile
- Hard, no flexibility
TIPS

- Askina® Absorb+ can be used as a primary dressing, or applied over other dressings where very high absorption is needed.
- If necessary, several dressings can be slightly over-lapped to cover very large wound areas.
- In case of deep wounds, do not pack the wound tightly as the product slightly expands with absorption.

INDICATIONS

Askina® Absorb+ is indicated for the management of moderately to heavily exuding, partial to full thickness wounds, such as:

- Pressure ulcers
- Venous and arterial leg ulcers
- Diabetic foot ulcers
- First and second degree burns
- Traumatic wounds

CLINICAL APPLICATION: VENOUS LEG ULCER

1. Highly exuding wound with oedema and redness of the surrounding tissue.
2. Askina® Absorb+ was used under compression therapy: It efficiently absorbed and removed a large quantity of exudate and wound debris.
3. Vertical absorption, designed for avoiding wound maceration.
4. After 12 days, wound surface and periwound oedema are significantly reduced, epithelialisation tissue is progressing.

Askina® Absorb+

<table>
<thead>
<tr>
<th>Size</th>
<th>Pcs/Pack</th>
<th>REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 cm x 10 cm</td>
<td>10</td>
<td>3331010</td>
</tr>
<tr>
<td>10 cm x 20 cm</td>
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<td>3331210</td>
</tr>
<tr>
<td>20 cm x 20 cm</td>
<td>5</td>
<td>3332005</td>
</tr>
</tbody>
</table>

Pictures taken by Frans Meuleneire, Zottegem Belgium
Pressure ulcers
Arterial and venous leg ulcers
Diabetic foot ulcers
Degree burns
Surgical incisions
Tracheostomies | Drainage sites
Sinuses | Wound tunnels

SUPERFICIAL WOUNDS

Askina® Foam
- Excellent fluid handling characteristics
- No need for frequent dressing changes
- Soft and conformable
- Sealed edges
- No adherence to the wound
- Designed to allow atraumatic, painless dressing changes
- Visual control of exudate absorption

Askina® Heel
- Ready to use, no fixation device needed
- Innovative anatomical design covering the malleolus
- Pressure relieving foam: helps prevent stage I pressure ulcers
- Good protection against friction and shear stress

Askina® Trachea
- Pre-cut opening to fit neatly around tracheostomies and drainage sites
- Can be used around any cannula or stoma

CAVITY WOUNDS

Askina® Foam Cavity
- Shaped to fit many types of cavity wounds
- Superior absorption
- Atraumatic removal
FIBRINOUS TO GRANULATING WOUNDS

MANAGING EXUDATE EFFECTIVELY.

FIBRINOUS TO GRANULATING WOUNDS
Askina® Foam | Foam Cavity | Trachea

HYDROPHILIC FOAM DRESSINGS

ADVANTAGES
- Excellent fluid handling characteristics
- No need for frequent dressing changes
- Enhances a moist wound environment
- No adherence to the wound: designed to allow atraumatic, painless dressing changes
- Visual control of exudate absorption
- Askina® Foam Cavity is highly resistant: easy to remove, without leaving particles

Askina® Foam is a two layered non-adherent foam dressing consisting of
- A soft hydrophilic polyurethane breathable foam layer with high fluid handling capacity
- A thin, transparent and protective polyurethane film, waterproof and bacteria resistant

Askina® Foam Cavity is made of the same foam material as Askina® Foam, without the polyurethane backing. The specific shape, high absorption capacity and resistance makes it ideal for dressing deep, highly exuding wounds.
TIPS
- Askina® Foam can be fixed with tapes or bandages, or with compression bandages
- Askina® Foam can also be used as a secondary dressing for highly exuding wounds, in combination with Askina® Sorb, or as a secondary dressing for deep wounds, filled with Askina® Sorb Rope, or Askina® Foam Cavity

ASKINA® FOAM INDICATIONS
Moderately to heavily exuding wounds:
- Stage I–IV pressure ulcers
- Venous and arterial leg ulcers
- Diabetic foot ulcers
- 1st and 2nd degree burns

ASKINA® FOAM CAVITY INDICATIONS
- Deep cavity wounds with high exudate levels
- Sinuses
- Wound tunnels

ASKINA® TRACHEA INDICATIONS
Absorbent apertured foam dressing for the stoma created by tracheostomy or for wound drainage sites.

ASKINA® FOAM: EXAMPLE OF USE
1. Askina® Foam used on a heavily exuding flat wound: visual control of exudate absorption.
2. Large quantity of exudate is absorbed: vertical absorption, without maceration of the wound edges.
3. Combined use of Askina® Foam Cavity, used to fill a deep highly exuding wound, and Askina® Foam, used as an additional absorption dressing.

<table>
<thead>
<tr>
<th>Askina® Foam</th>
<th>Size</th>
<th>Pcs/Pack</th>
<th>REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Askina® Foam</td>
<td>5 cm x 7 cm</td>
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<td>7240710</td>
</tr>
<tr>
<td>Askina® Foam</td>
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<td>7241010</td>
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<tr>
<td>Askina® Foam</td>
<td>10 cm x 20 cm</td>
<td>10</td>
<td>7241210</td>
</tr>
<tr>
<td>Askina® Foam Cavity</td>
<td>2.5 cm x 40 cm</td>
<td>10</td>
<td>7244010</td>
</tr>
<tr>
<td>Askina® Trachea</td>
<td>9.5 cm x 8.5 cm</td>
<td>10</td>
<td>7248510</td>
</tr>
</tbody>
</table>

Pictures taken by Frans Meuleneire, Zottegem Belgium
Askina® Heel

ANATOMICALLY SHAPED HYDROCELLULAR HEEL DRESSING

ADVANTAGES

- Ready to use concept, no fixation device needed
- Innovative anatomical design covering the malleolus
- Pressure relieving foam, helps prevent stage I ulcers
- Good protection against friction and shear stresses

Askina® Heel is an anatomically shaped, two layered, non adherent foam dressing, which includes a foam strap security and two self adhesive hooks that allow dressings to remain in place even during movement.
TIPS
- The strap can be opened and closed many times to ensure that the dressing is securely and comfortably held in place
- Wound can be easily inspected, without patient discomfort

INDICATIONS
Management of moderately to heavily exuding, partial to full thickness heel wounds
- Stage I-IV pressure ulcers
- Surgical incisions
- 1st and 2nd degree burns

HOW TO APPLY ASKINA® HEEL
1. Apply self adhesive labels on each side of Askina® Heel
2. Apply the dressing gently on the heel area and fix into place with the strap
3. Correctly positioned Askina® Heel: the ankle is covered
4. The dressing can also be fixed with a compression stocking

<table>
<thead>
<tr>
<th>Askina® Heel</th>
<th>Size</th>
<th>Pcs/Pack</th>
<th>REF</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>surface = 225 cm²</td>
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<td>7240103</td>
</tr>
<tr>
<td></td>
<td>surface = 225 cm²</td>
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</tr>
<tr>
<td>Product</td>
<td>Description</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------</td>
<td>----------------------------------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| **Askina® SilNet** | - Non-adherent: protects fragile granulation tissue  
- Atraumatic removal  
- Allows vertical passage of exudate through dressing  
- Soft and conformable                               |
| **Askina® DresSil** | - Rapid wicking properties  
- Excellent fluid management  
- Safe adhesion to surrounding skin  
- Atraumatic, painless removal  
- Soft and conformable                             |
| **Askina® DresSil Border** | - Easy to apply – no secondary fixation needed  
- Safe fixation due to adhesive border  
- Adaptable to body contours  
- Stays in place during showering                    |
| **Askina® DresSil Sacrum** | - Anatomic shape adapted to sacrum area  
- Good protection against pressure ulcers and maceration  
- Stays in place during showering                        |
| **Askina® DresSil Heel** | - Anatomically shaped foam dressing  
- Easy to apply  
- Large border for safe fixation                             |
| **Askina® Transorbent®** | - Superior absorption capacity  
- Does not stick to the wound surface  
- Cushioning effect due to the polyurethane foam  
- No maceration or residue  
- Can be cut                                           |
| **Askina® Touch** | - Easy to handle  
- Non adhesive: does not stick to the periwound area  
- Easy, painless and atraumatic dressing removal        |
| **Askina® Transorbent® Border** | - Secure fixation due to adhesive border  
- Suitable for difficult-to-dress areas                      |
| **Askina® Transorbent® Sacrum** | - Triangular shape well suited for sacral areas                                                |
| **Askina® THINSite** | - Ultra thin (1 mm): superior flexibility, ideal for difficult anatomical contours  
- Ultra absorbent  
- Balanced adhesive formula: easy application |
| **Askina® Hydro** | - Strong and long lasting absorption capacity  
- High cohesive strength of the gel  
- Less dressing residues in the wound bed  
- Low risk of dressing "meltdown" and leakage  
- Reduces odours                                        |
| **Askina® Biofilm Transparent** | - Efficient absorption of residual exudate  
- Thin design that fits any body contours  
- Transparent, allow visual control of the wound  
- Easy to apply  
- Stays in place during showering                        |
| **Askina® Derm** | - Innovative application system: easy to apply  
- High MVTR  
- Low tack adhesive: non aggressive removal  
- Impermeable to liquids and bacteria  
- Transparent: allows visual inspection of the wound       |

<table>
<thead>
<tr>
<th>Silicone Technology</th>
<th>Pressure Ulcers</th>
<th>Arterial and venous leg ulcers</th>
<th>Diabetic foot ulcers</th>
<th>II. degree burns</th>
<th>Skin tears</th>
<th>Donor sites</th>
<th>Lacerations</th>
<th>Prevent skin breakdown</th>
<th>Post-operative wounds</th>
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</thead>
<tbody>
<tr>
<td>Simple, Safe and Gentle.</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**GRANULATING TO EPITHELIALIZING WOUNDS**
Askina® SilNet

SOFT SILICONE WOUND CONTACT LAYER

ADVANTAGES

- Non-adherent: protects fragile granulation tissue
- Atraumatic dressing changes
- Soft and conformable
- Allows exudate passing through the dressing
- Either side can face the wound

Askina® SilNet is made of a conformable non-woven material, coated on both sides with soft silicone. It is used as a wound contact layer, it adapts to the wound surface and adheres safely to the surrounding skin. The wound site is protected from mechanical disruption during dressing changes. The use of Askina® SilNet thus minimizes the trauma associated with dressing changes.

SOFT SILICONE ADHESIVE

Askina® SilNet is made of soft silicone, which provides safe and secure fixation, without stripping epidermal cells during removal, unlike traditional acrylic adhesive.

Traditional adhesive

Soft silicone adhesive

1 Thomas S. Atraumatic dressings. WorldWideWounds, 2003
**TIPS FOR APPLICATION**

Askina® SilNet can be used in combination with secondary dressings
- Askina® Foam
- Askina® Heel
- Askina® Pad

**INDICATIONS**
- Skin tears
- Skin graft fixation
- Donor sites
- Lacerations
- 2nd degree burns

**HOW TO USE ASKINA® SILNET**
1. Remove the transparent liner.
2. Apply Askina® SilNet on the wound surface and gently remove the second transparent liner.
3. Apply suitable secondary absorbing dressing, like Askina® Foam.
4. Askina® SilNet actions: its porous structure allows vertical exudate passing into the secondary absorbing dressing, with no risk of maceration.

<table>
<thead>
<tr>
<th>Askina® SilNet</th>
<th>Size</th>
<th>Pcs/Pack</th>
<th>REF</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5 cm x 7.5 cm</td>
<td>10</td>
<td>5195710</td>
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<tr>
<td></td>
<td>5 cm x 7.5 cm</td>
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<tr>
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<td>10 cm x 7.5 cm</td>
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<td>5197510</td>
</tr>
<tr>
<td></td>
<td>10 cm x 7.5 cm</td>
<td>3</td>
<td>5197503</td>
</tr>
<tr>
<td></td>
<td>10 cm x 18 cm</td>
<td>10</td>
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<tr>
<td></td>
<td>10 cm x 18 cm</td>
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</tr>
<tr>
<td></td>
<td>20 cm x 30 cm</td>
<td>5</td>
<td>5192305</td>
</tr>
</tbody>
</table>
Askina® DresSil

FOAM DRESSINGS WITH SILICONE ADHESIVE

Askina® DresSil is a self adherent foam dressing with soft silicone adhesive on one side and a vapour permeable waterproof film on the other. It combines the absorption capacity of the foam with the soft adhesion of the silicone contact layer.

STRUCTURE OF ASKINA® DRESSIL

1. Protective polyurethane film
   - Highly breathable
   - Bacteria and waterproof barrier

2. Hydrophilic foam layer
   - Soft and conformable
   - Excellent absorption capacity

3. Silicone adhesive layer
   - Safe adhesion to the surrounding skin with atraumatic removal
   - Silicone layer is perforated to allow exudate to pass through to the foam layer

ADVANTAGES
- Gentle and secure adherence
- Minimized trauma during dressing changes
- Significant absorption capacity
- Easy to use
- Good adaptability on difficult-to-dress areas and skin contours
- Repositionable: can be cut to shape
- Improves patient comfort
- Hypoallergenic

1 Thomas S Atraumatic dressings. WorldWideWounds, 2003
GRANULATING TO EPITHELIALIZING WOUNDS

TIPS
- Askina® DresSil can be used under compression bandages
- Askina® DresSil may also be used as an aid for skin breakdown prevention

INDICATIONS
- Pressure ulcers
- Venous leg ulcers
- Arterial leg ulcers
- Diabetic foot ulcers
- 1st and 2nd degree burns
- Donor sites
- Skin tears
- Difficult to dress areas

EXAMPLE OF USE
1. Wound in epithelializing phase
   objective: protecting newly formed tissue and atraumatic dressing removal
2. Optimal exudate management
3. Within 2 days, the wound is completely epithelialized
4. Healed wound with a very satisfying cosmetic result

<table>
<thead>
<tr>
<th>Askina® DresSil Size</th>
<th>Pcs/Pack</th>
<th>REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 cm x 7 cm</td>
<td>3</td>
<td>5295703</td>
</tr>
<tr>
<td>10 cm x 10 cm</td>
<td>3</td>
<td>5291003</td>
</tr>
<tr>
<td>15 cm x 15 cm</td>
<td>3</td>
<td>5291503</td>
</tr>
<tr>
<td>10 cm x 20 cm</td>
<td>3</td>
<td>5291203</td>
</tr>
<tr>
<td>20 cm x 20 cm</td>
<td>5</td>
<td>5292005</td>
</tr>
</tbody>
</table>
Askina® DresSil Border | DresSil Sacrum

FOAM DRESSINGS WITH SILICONE ADHESIVE

ADVANTAGES

- Gentle and secure adherence
- Minimized trauma during dressing changes ¹
- Significant absorption capacity
- Easy to use
- Good adaptability on difficult-to-dress areas and skin contours
- Repositionable: can be cut to shape
- Improves patient comfort
- Hypoallergenic

Askina® DresSil Border has the same structure as Askina® DresSil, with an additional 1.5 cm large adhesive border, for extra security during wear. It is specially adapted for difficult-to-dress or moving areas (knees, elbows, skin folds).

EXAMPLES OF APPLICATION

Askina® DresSil Border is also available in a shape specifically designed for the sacral area, Askina® DresSil Sacrum.

¹ Thomas S Atraumatic dressings. WorldWideWounds, 2003
TIPS

- Askina® DresSil Border allows the patient to take a shower
- Ideal for use with Askina® Calgitrol Paste on infected diabetic foot ulcers

INDICATIONS

- Pressure ulcers
- Venous leg ulcers
- Arterial leg ulcers
- Diabetic foot ulcers
- 1st and 2nd degree burns
- Donor sites
- Skin tears

NEW! NOVEL SHAPE ASKINA® DRESSIL BORDER

Specifically designed for diabetic foot ulcers. The large silicone adhesive border with circular shaped island of foam is perfectly suited for small difficult wounds. Suitable for covering deep sinuses or cavity wounds.

<table>
<thead>
<tr>
<th>Askina® DresSil Border</th>
<th>Size overall dressing</th>
<th>foam island</th>
<th>Pcs/Pack</th>
<th>REF</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 x 6 cm</td>
<td>3 cm Ø</td>
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<td>5396610</td>
<td></td>
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<tr>
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</tr>
<tr>
<td>10 x 20 cm</td>
<td>7 x 17 cm</td>
<td>10</td>
<td></td>
<td>5391210</td>
</tr>
<tr>
<td>15 x 15 cm</td>
<td>12 x 12 cm</td>
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<td>10</td>
<td>5391503</td>
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<td>12 x 17 cm</td>
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<td>20 x 20 cm</td>
<td>17 x 17 cm</td>
<td>5</td>
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<tr>
<td>Sacrum</td>
<td>16 x 17.5 cm</td>
<td>5</td>
<td></td>
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</tr>
<tr>
<td>21 x 22 cm</td>
<td>18 x 19 cm</td>
<td>5</td>
<td>10</td>
<td>5492105</td>
</tr>
</tbody>
</table>
Specifically designed for wounds on the heel, Askina® DresSil Heel is a new foam dressing with silicone adhesive. It is easy to position and is self-adherent, so there is no need for secondary fixation.

The foam layer provides excellent absorption capacity and retention properties. Soft and conformable it has a cushioning effect which gives more protection and helps relieve pressure.

**ADVANTAGES**

- Soft silicone adhesive layer
- Atraumatic dressing removal
- Repositionable: allowing wound inspection
- Coated all over the foam to allow intimate contact
- Foam layer
  - Excellent absorption capacity
  - Soft and conformable
  - Adaptable shape
- Large Border
  - Security for improved patient comfort
  - Showerproof

1 Thomas S Atraumatic dressings. WorldWideWounds, 2003
TIPS
- Askina® DresSil Heel can also be used for preventing pressure ulcers
- Protects the heel and the malleolus
- No need for additional fixation

INDICATIONS
Moderately exuding chronic and acute wounds located on the heel:
- Pressure ulcer
- Diabetic foot ulcer
- Skin tears
- Venous and arterial leg ulcer
- First and second degree burns
- Donor sites

HOW TO POSITION ASKINA® DRESSIL HEEL
1. Remove the transparent top liner that is protecting the two „ears”.
2. Position the foot on the dressing.
3. Cover the ankle with the „ears“ of the dressing.
   Remove the transparent lower liner.
4. Wrap and cover the heel with the lower part of the dressing.

<table>
<thead>
<tr>
<th>Askina® DresSil</th>
<th>Size overall dressing</th>
<th>Pcs/Pack</th>
<th>REF</th>
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<tbody>
<tr>
<td>Heel</td>
<td>22 cm x 21.6 cm</td>
<td>18.9 x 18.5 cm</td>
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</table>

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37
Askina® Transorbent®

FOAM DRESSING WITH DRY HYDROGEL LAYER

In a randomised comparative study*, of 120 patients with pressure ulcers, Askina® Transorbent® showed 57% greater signs of surface wound reduction compared to a hydrocolloid dressing, without leaving residues in the wound.

Example of use of Askina® Transorbent®

2nd degree pressure ulcer on the vertebra of a cachectic patient.

ADVANTAGES
- Superior absorption capacity
- Does not stick to the wound surface
- Cushioning effect due to the polyurethane foam
- No maceration or residue
- Can be cut to individually adapted sizes and shapes

INDICATIONS
- Pressure ulcers
- Venous leg ulcers
- Arterial leg ulcers
- Helps prevent skin breakdowns

The Transorbent® dry hydrogel technology features a patented design that provides a unique absorption process. It is able to transfer fluid away from the wound, capture it, and eliminate the excess moisture.

STRUCTURE OF ASKINA® TRANSORBENT®

1. Thin polyurethane layer
   Impermeable to liquids and bacteria but vapour permeable.
2. Foam layer
   Provides a means of escape for vapour moisture giving the dressing its comfort, smoothness and conformability.
3. Dry hydrogel layer
   Absorbs wound exudate and preserves a moist healing environment. Excess exudate is evaporated through the foam and the upper layers.
4. Adhesive layer
   Sticks to the intact and dry surrounding skin but not to the wound surface.

<table>
<thead>
<tr>
<th>Askina Transorbent®</th>
<th>Size</th>
<th>Pcs/Pack</th>
<th>REF</th>
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</thead>
<tbody>
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<td></td>
<td>20 cm x 20 cm</td>
<td>5</td>
<td>0072791 W</td>
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</table>

* Comparison and evaluation of the performance characteristics, usability and effectiveness on wound healing of Askina® Transorbent® vs a hydrocolloid with foam backing; Marie Brown-Etris et al; Results presented at the 5th European Conference in Wound Management Harrogate, 21 – 24 November 1995
Askina® Transorbent® Border | Sacrum | Touch

FOAM DRESSINGS WITH DRY HYDROGEL LAYER AND ADHESIVE OR NON-ADHESIVE BORDER

The Transorbent® Border and Sacrum have the same dressing layers and advantages as Askina® Transorbent®. The adhesive polyurethane border reinforces the adhesivity for more security during wear time.

**Askina® Transorbent® Border**
Specifically adapted for difficult-to-dress areas.

**Askina® Transorbent® Sacrum**
Triangular shape adapted for use on sacral area.

**Askina® Touch**
While having the same structure as Askina® Transorbent®, Askina® Touch is non adhesive.

<table>
<thead>
<tr>
<th>Askina® Transorbent®</th>
<th>Size overall dressing</th>
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</tr>
</thead>
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<tr>
<td></td>
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<tr>
<td></td>
<td>17 cm x 17 cm</td>
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</tr>
<tr>
<td>Sacrum</td>
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</tr>
<tr>
<td></td>
<td>18 cm x 20 cm</td>
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<td></td>
<td>18 cm x 20 cm</td>
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<td>Askina® Touch</td>
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**TIPS**
Askina® Transorbent® Border is shower proof

**INDICATIONS**
- Arterial and venous stasis leg ulcers
- Stage I - IV pressure ulcers
- May also be used as an aid in the prevention of skin breakdown.

Askina® Transorbent® Sacrum
- Safe adhesion of the borders ensures protection of the skin against bodily fluids
- The cushioning effect of the foam layer helps prevent pressure ulcers
Askina® THINSite®

THIN ABSORBING DRESSING WITH DRY HYDROGEL TECHNOLOGY

TIPS
- Askina® THINSite® dressings are applied with a non-touch delivery system
- The dressing can be cut to any size or shape
- It can also be used to care for peristomial skin

ADVANTAGES
- Conforms and compensates for difficult anatomical contours
- During patient movement, helps prevent bunching or rolling
- Allows visual inspection of absorbed exudate
- An adhesive layer that bonds to the intact skin but is non-adherent to the wound.

INDICATIONS
- Pressure ulcers
- Venous leg ulcers
- Arterial leg ulcers

Askina® THINSite® is an ultra thin and highly conformable wound dressing, offering all the absorptive powers of thick dressings into one patient-preferred, flexible design. The advanced dry hydrogel formula offers controlled absorption and provides superior fluid management.

SUPERIOR ABSORPTION CAPACITY

In a side-by-side comparison over a five-day period, Askina® THINSite® dressings absorbed significantly more fluid than the leading thick and thin hydrocolloids. The key to this performance is the hydrogel’s unique ability to manage exudate over hours of wear time.

Data on file

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Askina® Hydro

HYDROCOLLOID DRESSING

Askina® Hydro is a new generation hydrocolloid dressing, with a particularly strong, long term absorption capacity and outstanding cohesive strength, with less risk of leaving residue in the wound bed. It contains Psyllium Husk particles which reinforce the absorption capacity, bind wound bacteria and reduces malodour.

STRONG AND LONG ACTING ABSORPTION

- Askina® Hydro can be worn for 5 to 7 days
- Significantly reduces odour

INDICATIONS
Managing moderately to highly exuding wounds
- Pressure ulcers
- Venous leg ulcers
- Arterial leg ulcers
- Donor sites
- Abrasions
- 1st and 2nd degree burns

TIPS

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Askina® Biofilm® Transparent

TRANSPARENT HYDROCOLLOID DRESSING

TIPS
- Askina® Biofilm® Transparent can be worn for up to 7 days

ADVANTAGES
- Thin design that fits any body contours
- Transparent, allows visual control of the wound
- Easy to apply

INDICATIONS
Management of low exuding, chronic and acute wounds.
- Superficial chronic wounds: pressure ulcers, leg ulcers
- Superficial acute wounds: Burns, abrasions, donor sites
- Post operative wounds

Askina® Biofilm® Transparent is a thin sterile transparent hydrocolloid dressing for moist wound treatment with the capacity to absorb residual exudate.

Composition
- Sodium-carboxymethylcellulose
- Polyisobutylene
- Polyurethane film

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Askina® Derm

POLYURETHANE FILM DRESSING

Askina® Derm is a sterile transparent polyurethane film dressing. It is semipermeable and suitable for the protection of newly formed skin. It is also used as protection against skin breakdown due to friction or continuous exposure to moisture.

INNOVATIVE APPLICATION SYSTEM

1. Remove the printed release paper from the adhesive side of the dressing.
2. Place the dressing over the wound site with the tabs on the adhesive side facing toward the wound. Gently apply pressure to the dressing as it attaches to the wound.
3. Slowly peel away the tabs and gently apply the remainder of the dressing to the surrounding dry skin.
4. Remove the plastic carrier by peeling the tabs in the direction of the arrows.

TIPS

- Can be used as prevention against skin breakdown due to friction or continuous exposure to moisture
- Can be used for the fixation of IV catheters or as a secondary dressing

ADVANTAGES

- Maintains a moist environment
- Prevents scab formation
- Easy to apply
- High MVTR film
- Impermeable to liquids and bacteria
- Transparent: allows visual wound inspection

INDICATIONS

- Minor burns
- Donor sites
- Pressure areas
- Post-operative wounds
- Abrasions and lacerations

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</table>
| **Askina® Calgitrol® Ag** | • Immediate and sustained release of silver ions  
• No activation needed, ionic silver readily available  
• Non staining  
• Excellent exudate management |  |
| **Askina® Calgitrol® THIN** | • Immediate and sustained release of silver ions  
• No activation needed, ionic silver readily available  
• Non staining  
• Well adapted for deep and difficult-to-dress wounds |  |
| **Askina® Calgitrol® Paste** | • Highly conformable paste for intimate contact with the wound bed  
• No activation needed  
• Maintains a moist wound environment  
• Easy to remove by simple rinsing  
• Non staining  
• Provides for broad antimicrobial effectiveness |  |
| **Askina® Carbosorb** | • Absorbs wound bacteria and malodorous substances  
• For all types of malodorous wounds  
• To be used as a secondary dressing |  |
<table>
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<tr>
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<th>Venous leg ulcers</th>
<th>Arterial leg ulcers</th>
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**RAPID AND LONG LASTING ANTIMICROBIAL ACTION.**

**INFECTED WOUNDS**
Askina® Calgitrol® Ag | Askina® Calgitrol® THIN

SILVER ALGINATE DRESSINGS

Askina® Calgitrol® Ag is a sterile dressing consisting of two layers:
• an absorbent polyurethane foam layer which provides for the absorption of wound exudate
• an ionic silver alginate matrix which provides for broad antimicrobial effectiveness and helps reduce the bacterial load

Askina® Calgitrol® THIN is a thin layer of ionic silver alginate matrix. Soft and conformable, it is well adapted for deep and difficult-to-dress wounds.

ADVANTAGES
• Broad antimicrobial effectiveness (1)
• Immediate availability of silver ions (2)
• Sustained controlled release to the wound bed during use of the dressing (2)
• Tolerable and antimicrobially efficient (3)
• Easy to use & conformable (4)
• No activation needed: ready to use

Sustained controlled release of silver ions from Askina® Calgitrol® Ag (2)

Steady state concentration of silver ions of about 60 ppm (parts per million) over seven days (2)

In contact with wound exudate, the Calgitrol® ionic silver alginate matrix forms a soft gel allowing the liberation of silver ions.

(1) Instruction for use: Askina® Calgitrol® Ag, Askina® Calgitrol® THIN, Askina® Calgitrol® Paste.
TIPS FOR APPLICATION

- Apply the dressing with silver matrix (dark grey surface) touching the wound
- Secure in place with an appropriate fixation dressing
- After dressing removal, thoroughly cleanse the wound to remove any residue left from Askina® Calgitrol® Ag/Askina® Calgitrol® THIN

INDICATIONS

Askina® Calgitrol® Ag is indicated for the management of exuding partial to full thickness wounds, stage I-IV pressure sores, venous ulcers, second degree burns and donor sites. It is indicated for external use only and may be used in the management of infected wounds under medical supervision at the discretion of the physician.

EXAMPLES OF USE

1. Using Askina® Calgitrol® Ag on flat wound
2. Askina® Calgitrol® THIN used for a flat wound with irregular surface with Askina® Foam as a secondary dressing
3. Using Askina® Calgitrol® THIN on the heel wound, in combination with Askina® Heel
4. Askina® Calgitrol® THIN is also suitable for cavity wounds

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Askina® Calgitrol® Paste

SILVER ALGINATE WOUND PASTE

Askina® Calgitrol® Paste is a highly conformable paste made of the same ionic silver alginate matrix used in the Askina® Calgitrol® Ag flat dressings. The high conformability allows a closer contact between the active ionic silver alginate matrix and the wound bed, which is particularly valuable in difficult to manage wounds such as tunnels and sinuses, seen in patients with 2nd degree burns and diabetic foot ulcers.

ADVANTAGES
- Highly conformable paste for close contact with the wound bed
- Provides for broad antimicrobial effectiveness
- Long lasting antibacterial protection
- Maintains a moist wound environment
- Easy to remove by simply rinsing
- Can be stored and used for 7 days if the lid/cap is replaced after use

Moisture absorption through the matrix leads to softening and swelling of the alginate structure, which facilitates controlled and steady state release of ionic silver into the wound.

Bacteria Kill curves

- Escherichia coli NCIMB 12416; 8.6 Log reduction in 3 hours
- Pseudomonas aeruginosa NCIMB 8626; 10.2 Log reduction in 3 hours
- Methicillin Resistant Staphylococcus aureus (MRSA, ATCC BAA-44); 6.4 Log reduction in 3 hours

CFU: colony-forming units
B. Braun, Reports HOSP283A and HOSP303, 2009
TIP
- Shake the tube prior to use
- Apply a thick layer of the paste to the entire surface
- The canula allows easy application to wound tunnels and small sinuses
- On large surfaces, the paste can be easily spread with gloved hands
- Painless and easy removal simply by rinsing

INDICATIONS
For the management of:
- Partial to full thickness wounds
- Stage I- IV pressure ulcers
- Venous, arterial and neuropathic ulcers
- Second degree burns and donor sites

HOW TO APPLY ASKINA® CALGITROL® PASTE
1. Fill the wound with Askina® Calgitrol® Paste (diabetic patient with irregular shaped wound on the left foot)
2. Completely cover the wound surface. Askina® Calgitrol® Paste is easy to apply and stays in the wound.
3. Cover with an appropriate secondary dressing
4. Fix with bandages

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Askina® Carbosorb
CHARCOAL DRESSING

TIPS FOR APPLICATION
The dressing can be fixed with contention stockings leg wounds or with bandages and tape.

INDICATIONS
Askina® Carbosorb may be used for the management of low to heavily exuding, partial to full thickness chronic wounds, in particular when infection and/or offensive odour is present.
- Venous leg ulcers
- Arterial leg ulcers
- Pressure ulcers
- Fungating wounds
- Infected and/or malodorous surgical or traumatological wounds

Askina® Carbosorb is a conformable, sterile wound dressing with a thick, absorbent layer of non woven viscose-rayon, and an activated charcoal cloth layer for bacteria and malodor absorption.

Askina® Carbosorb has limited absorption capacity: it can be used alone on low exuding malodorous wound, or in combination with other absorbing dressings for moderately to heavily exuding malodorous wounds.

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Askina® Pad | Askina® Pad S

ABSORBING NON-WOVEN COMPRESSES

Askina® Pad is a sterile, non adherent, highly absorptive compress to cover all types of exuding wounds.

Askina® Pad S is a sterile, non adherent, highly absorptive slit compress for draining and feeding tube dressings. It has a central hole suitable for using tubes with a diameter up to 11 mm and a slit, to wrap around tubing.

THREE-LAYER SYSTEM

1. Water repellant backing material
2. Fleece with a high absorption capacity
3. Non adherent wound contact layer (polyester net)

INDICATIONS ASKINA® PAD
- Absorptive dressing for traumatologic, dermatologic or surgical wounds
- Secondary dressing for a wide range of other dressings, including infected wounds

INDICATIONS ASKINA® PAD S
- Absorptive dressing for drainage sites, around catheters, feeding tubes, suprapubic catheters, etc.

TIPS
Askina® Pad can be used as a secondary dressing for other Askina® dressings:
Askina® Gel, Askina® Sorb, Askina® Calgitrol® Ag, Askina® Calgitrol THIN, ...

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Diameter of the central hole: 4.1 – 11 mm for Ch. 9 – 30
Linovera® is a solution of hyperoxygenated fatty acids used to prevent and treat Stage I pressure ulcers. Due to the high percentage of linoleic acid, its repairing action is increased. The vegetable extracts – aloe vera and centella asiatica – have major protecting and healing effect on the skin:

- Protects against external agents
- Improves skin resistance
- Helps renew the epidermis cells
- Restores capillary circulation \(^1\)
- Stimulates the synthesis of collagen \(^1\)
- Has a hydrating and healing effect \(^2\)

**TIPS FOR APPLICATION**
- Spray Linovera\(^2\) 2 – 3 times a day on the affected area and rub in softly to evenly distribute the product until it is fully absorbed
- Use in combination with Askina\(^2\) Heel for optimal protection of the heel area against pressure ulcers

**INDICATIONS**
- Prevention and treatment of Stage I pressure ulcers

**COMPOSITION**
- Hyperoxygenated essential fatty acids (linoleic acid)
- Tocopherols
- Aloe Vera
- Centella Asiatica
- Perfume

---

2. M. De Pera, Evic Hispania (Barcelona, Spain), Assessment of moisturizing effect in humans, Study report n°05-0144/05.0137, 22 Mar 2005
SKIN AT RISK

Askina® Barrier Film | Askina® Barrier Cream

BREATHABLE SKIN BARRIER | PROTECTANT AND MOISTURE BARRIER

Askina® Barrier Film is a rapid drying, transparent, breathable skin barrier used for the protection of intact or damaged skin from urine, faeces, tape trauma and friction. It is completely sting free.

INDICATIONS ASKINA® BARRIER FILM
Askina® Barrier Film is indicated for use on intact or damaged skin. Askina® Barrier Film acts as a protective barrier:
- Against irritation from bodily fluids
- For sensitive and fragile skin
- Under adhesive dressings to reduce disruption to newly healing tissue
- For damaged skin
- For skin tears
- To protect periwound and peristomal areas
- For small cuts and tears
- At fixation sites for drainage tubes and external catheters

Askina® Barrier Cream acts as a lasting protective barrier on incontinent patients skin, exposed to the irritating effect of urine and stools. It efficiently moisturizes very dry skin and can also be used for skin protection whenever there is a risk of skin breakdown due to prolonged contact with body fluids.

INDICATIONS ASKINA® BARRIER CREAM
Askina® Barrier Cream is indicated for use on intact skin. Askina® Barrier Cream acts as a protectant and moisture barrier:
- Against maceration caused by incontinence or body fluids
- To protect sensitive, fragile and severely dry skin, including periwound areas
- To prevent skin irritation.

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TIPS FOR APPLYING ASKINA® BARRIER FILM
- Hold the spray nozzle 10 – 15 cm from the skin, press the spray nozzle and apply a smooth coating of film over the necessary area
- Allow the film to dry for 30 seconds

TIPS FOR APPLYING ASKINA® BARRIER CREAM
- Dry the skin thoroughly before application
- Spread Askina® Barrier Cream thinly to cover the affected area
- On frequently cleansed skin, daily reapplication may be required
Askina® Soft

STERILE POST-OPERATIVE WOUND DRESSING

Askina® Soft is a sterile post-operative dressing combining a breathable fleece material and a non-adherent absorptive pad.

- Elastic wound dressing
- Breathable fleece material
- Skin friendly adhesive
- Non-adherent wound contact layer
- Easy to apply, even on difficult locations

INDICATIONS
Post-operative wound management, and all sorts of acute wounds such as cuts, lacerations, sutures, abrasions, ...

<table>
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Askina® Soft Clear

STERILE POST-OPERATIVE WOUND DRESSING

Askina® Soft Clear is a sterile post-operative dressing that combines a semi-permeable transparent film and a non-adherent absorptive pad.

- Easy to apply, even on difficult locations
- Skin friendly acrylic adhesive
- Allows the patient to shower with the dressing in place
- Bacteria proof barrier
- Allows for visual control

**INDICATIONS**
Management of post-operative wounds, and all sorts of acute wounds requiring a waterproof barrier and visual control

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Askina® Soft I.V.

I.V. CANNULA FIXATION DRESSING

Sterile I.V. cannula fixation dressing, with an integrated non-adherent absorptive pad. Made from soft conformable non-woven materials.

- Skin friendly adhesive
- Slit to wrap around tubing
- Extra pad for cushioning
- Non-adherent absorptive pad
- The puncture site stays dry
- Prevents puncture site adherence
- Ideal for fixation of Vasofix® Safety

INDICATIONS
- I.V. cannula fixation

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**Askina® Soft Clear I.V.**

**I.V. CANNULA FIXATION DRESSING**

Sterile transparent version of Askina® Soft I.V., for an alternative use.

- Bacteria proof barrier
- Visual inspection of the puncture area
- Breathable material

**INDICATIONS**
- I.V. cannula fixation

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MANDATORY INFORMATION FOR ADVERTISING

ACCORDING TO THE AUTHORISED PRODUCT INFORMATION IN GERMANY

Braunovidon® ointment/
Braunovidon® ointment gauze

Active ingredient: Povidone-iodine

Composition
Braunovidon ointment:
100 g ointment contain 10 g povidone iodine with a content of 10% available iodine. Other ingredients: macrogol 400, macrogol 4000, purified water, sodium hydrogen carbonate (Braunovidon ointment gauze also contains cotton fabric, white soft paraffin).

Braunovidon ointment gauze:
A piece of 7.5 x 10 cm impregnated dressing contains 10.5 g ointment (corresp. to 1.05 g povidone iodine), a piece of 10 x 20 cm impregnated dressing contains 28.0 g ointment (corresp. to 2.8 g povidone iodine).

Therapeutic Indications
Antiseptic for repeated application over a limited period of time on damaged skin, e. g. Decubitus (pressure sores), Ulcus cruris (sores on lower leg), surface wounds and burns, infected dermatoses.

Contraindications
- Hypersensitivity to povidone iodine or any of the other ingredients
- Hyperthyroidism or other present thyroid diseases
- Skin disease dermatitis herpetiformis
- Planned or administered radiiodine therapy (until the end of treatment)
- Newborns and infants up to the age of six months.

Undesirable Effects
- Prolonged treatment can affect the wound healing process and transient pain, burning and feeling hot can occur.
- Very rare: Cutaneous reactions due to hypersensitivity (allergy).
- Very rare: Acute reactions of the immune system (anaphylactic reactions) with the involvement of other organs (e.g. skin, respiratory tract, circulatory system).
- After long-term use of povidone iodine or with treatment of large-scale burns, very rarely disturbance in electrolyte- and serum osmolarity and metabolic acidosis were reported. In this cases renal failure can also occur.
- Patients with thyroid disease should be monitored regularly for thyroid function if Braunovidon is used on a large scale or often, particularly on damaged skin.

Marketing Authorisation Holder
B. Braun Melsungen AG
34209 Melsungen
Germany
(03 / 2011)
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Manufacturer: 
Prontosan®, Braunovidon™:  
B. Braun Medical AG, Infection Control, Sesessat, 6204 Kempach, Switzerland  
Askina® product: B. Braun Hospicare Ltd., Collooney, Co. Sligo, Ireland  
Askina® product: B. Braun Medical SA, Carrefour de Terrassa, 121, 08191 Rupi (Barcelona), Spain  

Sender: 
B. Braun Hospicare Ltd., Collooney, Co. Sligo, Ireland  
B. Braun Medical AG, Infection Control, Sesessat, 6204 Kempach, Switzerland

* size overall dressing