



Spotlight Stoma Care

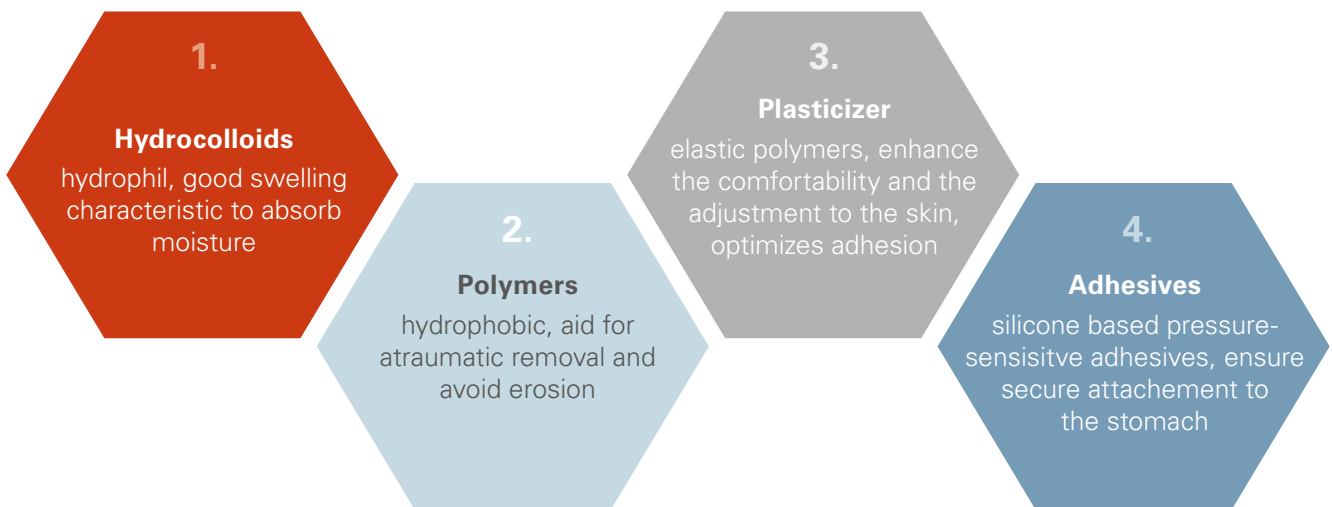
# Stoma Care

## What is a stoma?

Stoma (greek for „opening“) describes a surgically added body opening. Depending on the disease the stoma is located on different parts of the intestinal tract. Ileostoma are stoma located on the small intestine while colostoma are located on the large intestine.

## What is the function?

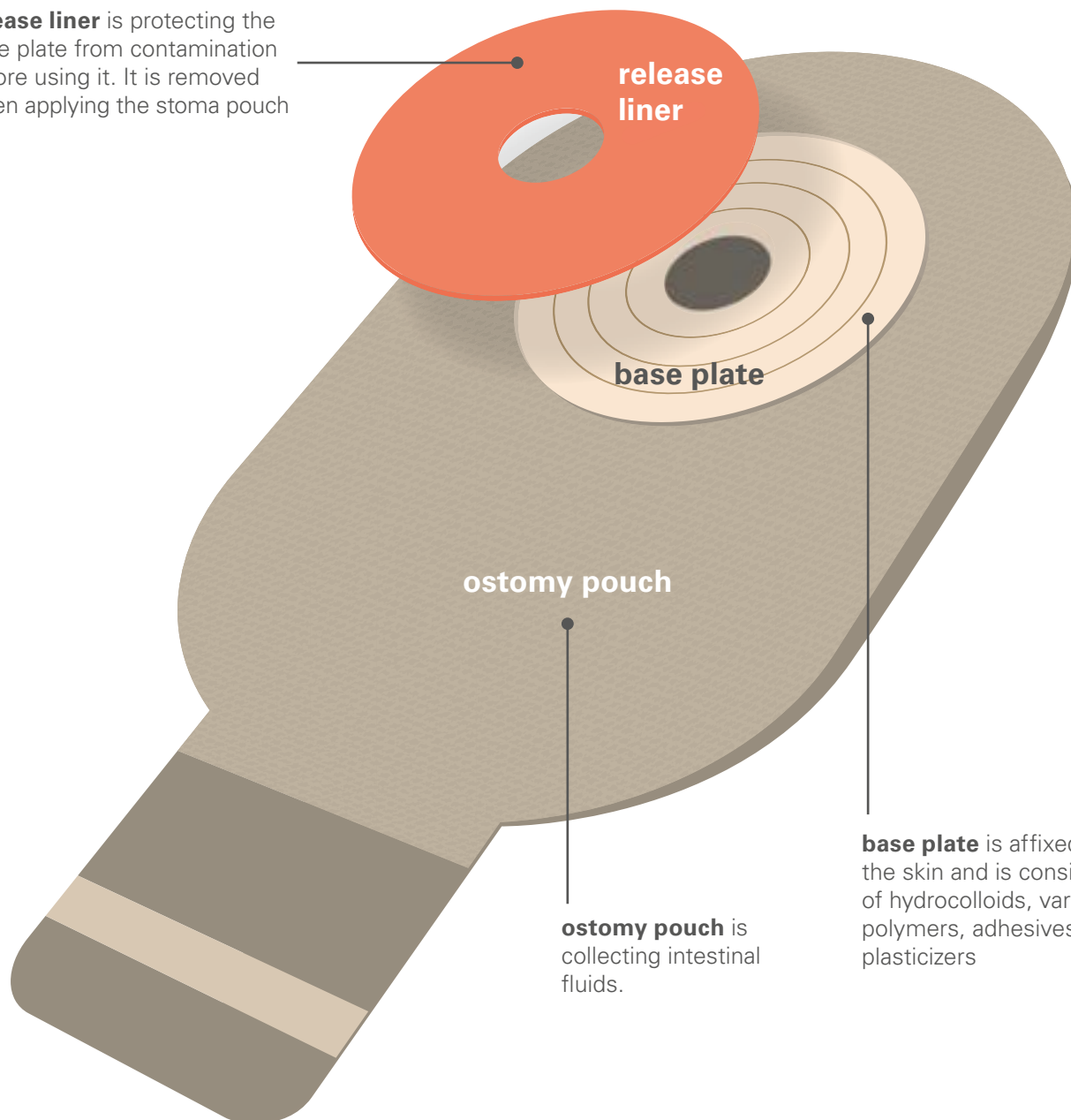
As introduced, colo- or ileostoma are installed to temporary aid healing of diseased intestine parts or serve as permanent artificial anus. Thus, the stoma-patch must ensure three crucial functions: absorbing leaking fluids from the intestine, secure attachment and maintain good health of the surrounding skin to avoid maceration. Consequently, stoma base plates are formulated as follows:



## Biesterfeld offers for ostomy patches:

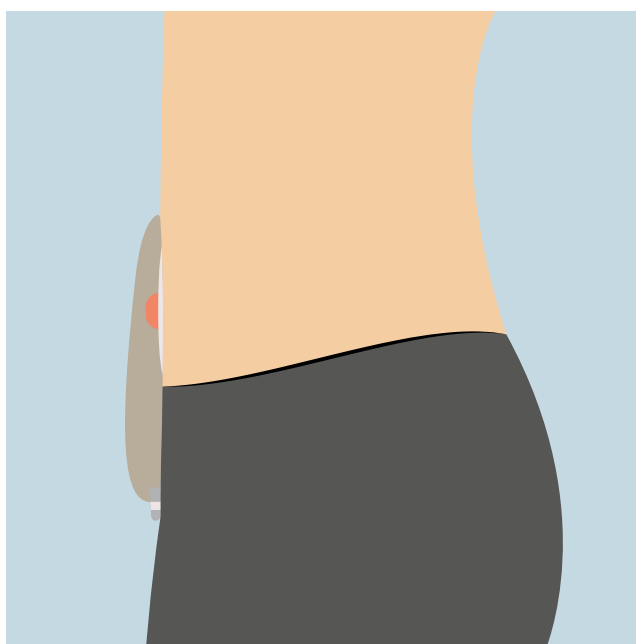
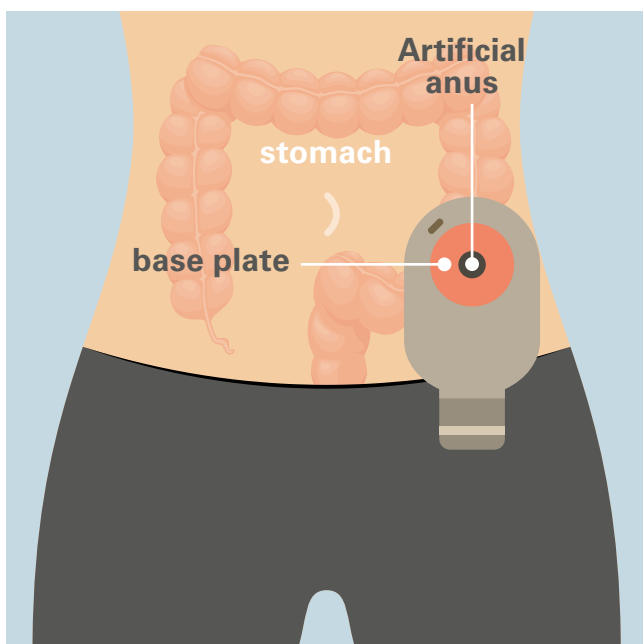


**release liner** is protecting the base plate from contamination before using it. It is removed when applying the stoma pouch



**base plate** is affixed to the skin and is consisting of hydrocolloids, various polymers, adhesives and plasticizers

**ostomy pouch** is collecting intestinal fluids.



# Products for stoma base plates



## DuPont

Product	Description	Grade
Liveo™ MG-2401 Silicone PSA	Solvent: Hexamethyldisiloxane Medium tack 32 % solid content	Medical device Grade, Cytotoxicity, Skin Irritation & Skin Sensitization in compliance with ISO 10993 One-Part, polycondensed Polydimethylsiloxane/ silicate resin adhesive
Liveo™ MG-2402 Silicone PSA	Solvent: Ethyl Acetate Medium tack 64 % solid content	
Liveo™ MG-2502 Silicone PSA	Solvent: Ethyl Acetate High tack 59 % solid Content	
Liveo™ MG-2410 Silicone PSA	Hot-Melt Very High tack Melt viscosity: 30.300 cP	
Liveo™ MG-2710 Silicone PSA*	Hot-Melt Very high tack Melt viscosity: 35.000 cP condensed level of hydroxyl function- alities to be formulated with other ingre- dients like hydrocolloids and/or other hydrophilic products to achieve optimum patient comfort and improved service conditions	

\* is a developmental stage material at DuPont. Please get in touch to receive further information.

- High adhesion and conformity to skin
- Extended wear times
- High gas and moisture permeability
- Non-sensitizing, non-irritating
- Adhesion of dressings, prosthetics, sensors and other devices to the body

## Nouryon



Product	Description	Grade
Cekol	Carmellose sodium, CMC Available in a wide range of viscosity grades	Carmellose Sodium EP Carboxymethylcellulose NF

- Thickener and rheology modifier
- Stabilisation of emulsions and suspensions

## CP Kelco



Product	Description	Grade
Genu® Pectin	Pectin from citrus peel High ester pectin (DE >50%) Range of specific particle sizes Available in different viscosity grades	Pectin USP

- Gel forming agent
- Textures from gels to structured fluids
- Used as water-binding and film-forming agents
- Emulsion/suspension stabilisation
- Buffer effect to pH 3-5
- Ability to absorb and bind water

# Topical products for stoma care

## What are topical products used for?

As the skin under the stoma patch is highly sensitive, it is important to care for it correctly. This is where topical silicone products come into play. They can be used to formulate topical barrier films or adhesive removal products.

## What topical solutions exist?

A topical barrier acts as a barrier against irritation from body fluids, which is of utmost importance for stoma care. An adhesive removal product can be a cream or a spray. They make the patch removal less painful, so the patient has a comfortable experience.

## Our offer for topical stoma care



- various silicone blends
  - › **Silicone Resin Blend:** Can be diluted in volatile silicone carrier / Provide a film on the skin with low-tack, substantive and non-occlusive properties / Good wash-off resistance
  - › **Liveo MG-2001:** Offers excellent cleaning ability coupled with quick drying time and skin protection / Non-occlusive / Non-stinging with a silky smooth after-feel / Low odor compared to organic solvent

### DuPont

Product	Description	Grade
<b>Silicone Resin Blends</b>	MQ resin polymer in linear silicones	For use in topical Medical Device application

- Film former
- Permeable barrier film
- Long lasting film
- Excellent wash-off resistance
- Non-occlusive
- For Skin barrier Products

Product	Description	Grade
<b>Q7-9180 Silicone Fluid</b> 0,65 cSt 1 cSt	Hexamethyldisiloxane (0,65 cSt) Octamethyltrisiloxane (1 cSt)	For use in topical Medical Device application

- Volatile carrier for resin blend
- No stinging, no cooling
- Low odor compared to organic solvents

Product	Description	Grade
<b>MG-2001</b>	Hexamethyldisiloxane 94% W/W Octamethyltrisiloxane 5% W/W Dimethicone 20cSt 1% W/W	For use in topical medical device applications

- Silicone Blend for adhesive removal products (excellent cleaning ability)
- Quick drying time
- Skin protectant

Besides these ready to use products from DuPont we offer a broad range of raw materials from several suppliers for helping formulate customised skin protecting solutions.



Biesterfeld Spezialchemie GmbH also offers formulations capabilities at the Biesterfeld lab in Hamburg. Get in touch via [healthcare@Biesterfeld.com](mailto:healthcare@Biesterfeld.com).

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