

Spotlight Stoma Care



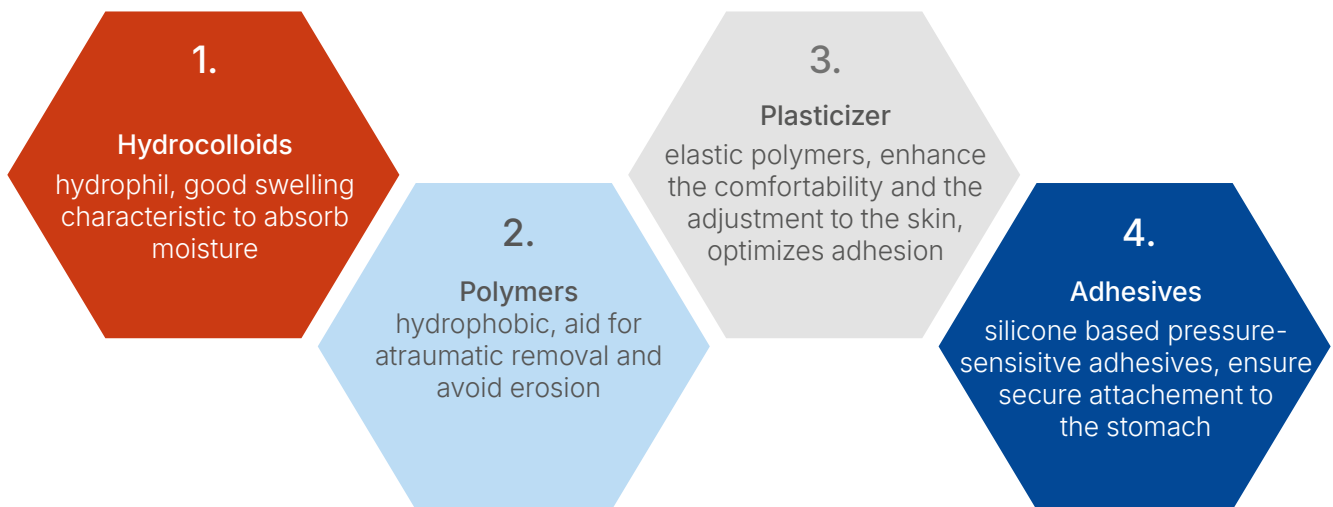
Stoma Care

What is a stoma?

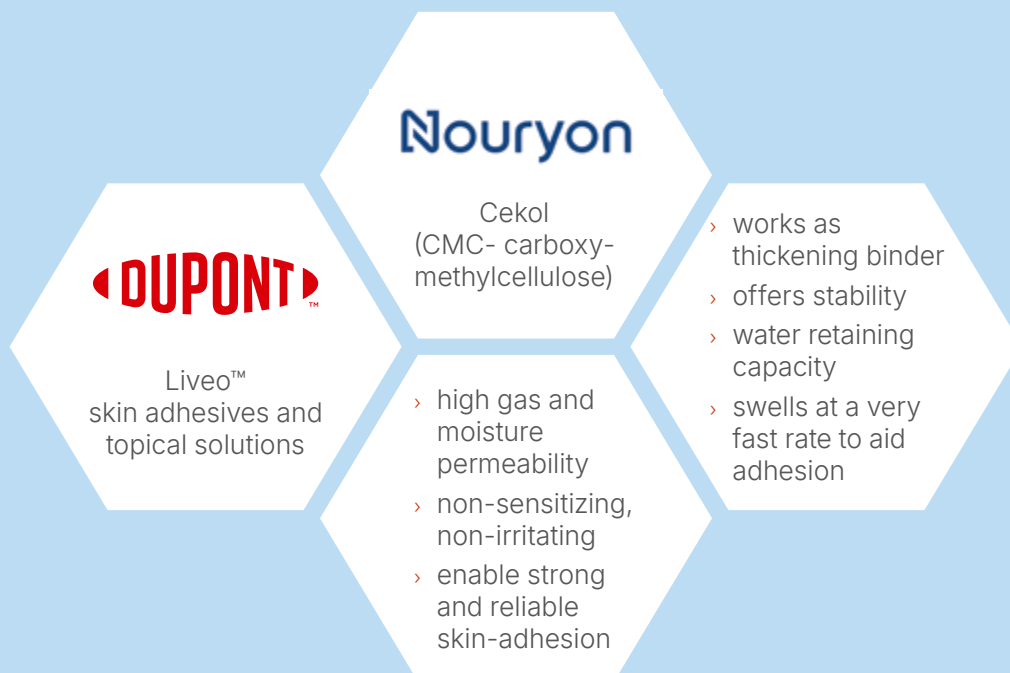
Stoma (greek for „opening“) describes a surgically added body opening. Depending on the disease the stoma is located on different parts of the intestinal tract. Ileostoma are stoma located on the small intestine while colostoma are located on the large intestine.

What is the function?

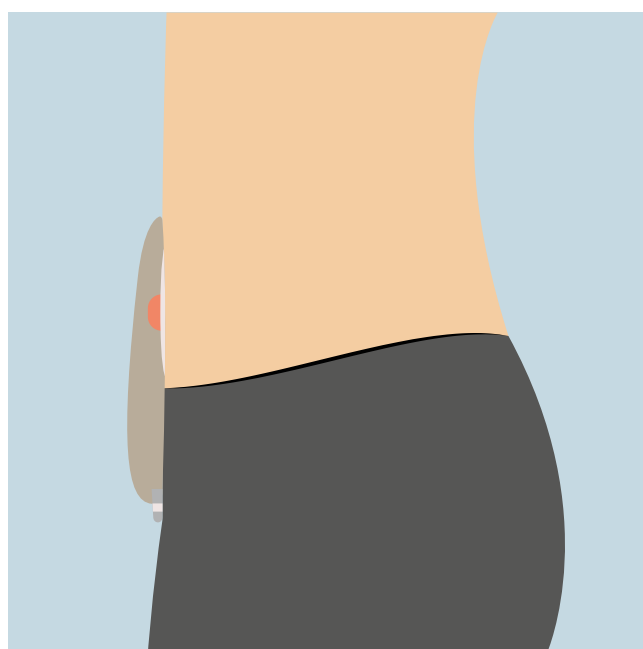
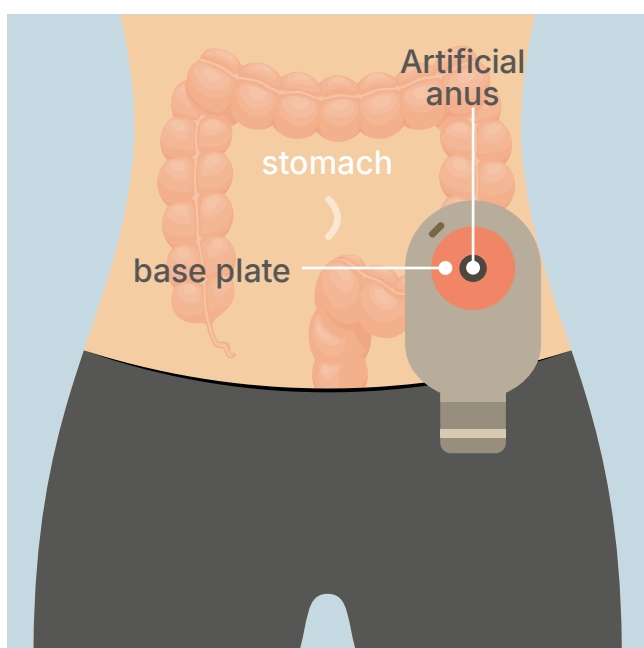
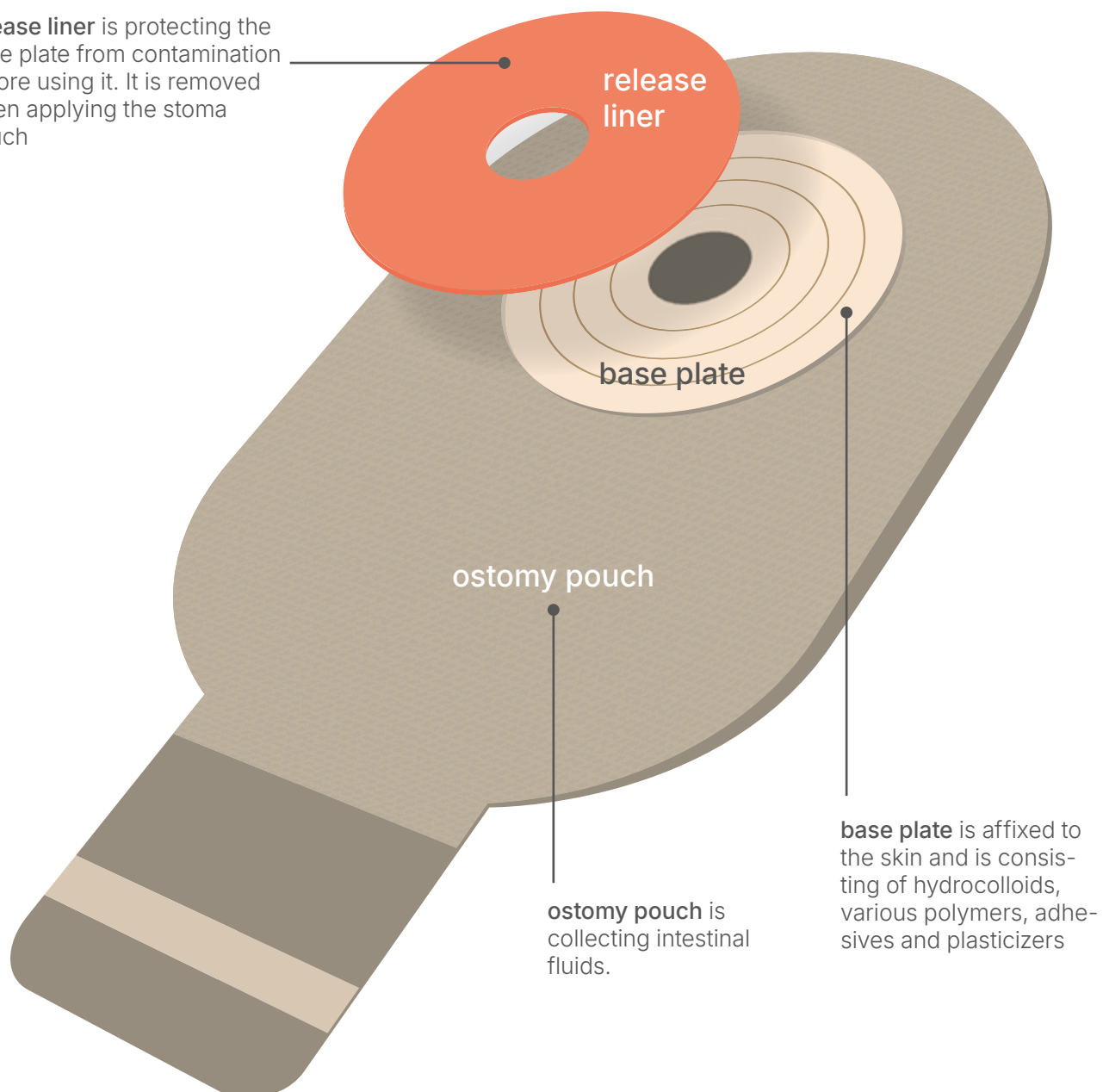
As introduced, color ileostoma are installed to temporary aid healing of diseased intestine parts or serve as permanent artificial anus. Thus, the stoma-patch must ensure three crucial functions: absorbing leaking fluids from the intestine, secure attachment and maintain good health of the surrounding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



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	

- › 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
- › Water binding in Ostomy applications such as pouches and pastes

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. Prototype formulations for creams and Sprays are available to help you to reduce development time.

Our offer for topical stoma care



- › various silicone blends
 - › **Silicone Resin Blends:** Leave a non-occlusive but substantive film on the skin. Provides Good wash-off resistance and low tackiness.
 - › **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
Liveo™ TE-9720 Silicone Resin Blend	Trimethylsiloxisilicate (30%) in non volatile Dimethicone 100cSt	For use in topical medical device applications
Liveo™ TE-9721 Silicone Resin Blend	Trimethylsiloxisilicate in volatile Caprylylmethicone	For use in topical medical device applications
Liveo™ Dimethiconol Blend 20	Dimethiconol Gum in non-volatile Dimethicone 20cst	For use in topical medical device applications

- Non occlusive film former
- Permeable barrier film
- Long lasting film
- Excellent wash-off resistance

Product	Description	Grade
Liveo™ TI-1050 Fluid 0,65 cSt and 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
Liveo™ MG-2001	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 products from DuPont we offer a broad range of raw materials from several suppliers for helping formulate customised skin protecting solutions.



Example Formulations



Washable Barrier Spray

Substantive, washable film that provides a pleasant feel on the skin

This spray formulation developed by DuPont™ Liveo™ Healthcare Solutions provides a smooth feel on skin and delivers a substantive, washable film. Patients will appreciate the alcohol-free formulation, which has low odor compared to a competitive alternative made with alcohol.

Liveo™ TI-1050 Fluid, 1 cSt, and Liveo™ TI-1050 Fluid, 0.65 cSt, are volatile solvents, allowing a quick evaporation and drying time.

Liveo™ TE-9721 Silicone Resin Blend is a recognized breathable film-former with good substantivity and a pleasant feel on the skin.

DuPont

Product	Description	Function
Liveo™ TI-1050 Fluid, 1 cSt	Trisiloxane	Solvent
Liveo™ TI-1050 Fluid, 0.65 cSt	Disiloxane	Solvent
Liveo™ TE-9721 Silicone Resin Blend	Trimethylsiloxysilicate and Caprylyl Methicone	Film-former



Ostomy Barrier Spray

Invisible, substantive film that is resistant to wash

This spray formulation provides a smooth feel on skin and delivers a substantive film that is resistant to wash-off. Patients will appreciate the alcohol-free formulation that has low odor compared to a competitive alternative made with alcohol.

Liveo™ TI-1050 Fluid, 1 cSt, and Liveo™ TI-1050 Fluid, 0.65 cSt, are volatile solvents, allowing a quick evaporation and drying time. Liveo™ TE-9720 Resin Blend, which is a recognized film-former with good substantivity on skin, provides wash-off resistance.

DuPont

Product	Description	Function
Liveo™ TI-1050 Fluid, 1 cSt	Trisiloxane	Solvent
Liveo™ TI-1050 Fluid, 0.65 cSt	Disiloxane	Solvent
Liveo™ TE-9720 Resin Blend	Trimethylsiloxysilicate and Dimethicone	Film-former

Contact

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Beyond products: insights for Medical

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