

# Klinion skin adhesive



- Proven adhesion strength and flexibility<sup>1-7</sup>
- Easy to use in 3 steps<sup>8</sup>
- Rapid set time<sup>8</sup>
- Can be stored at ambient temperatures<sup>8</sup>
- Effective microbial barrier<sup>8,9</sup>

# Klinion skin adhesive

Klinion is a well-known Dutch brand that has been in the wound care market for over 100 years. With a wide range, Klinion products ensure optimal user comfort. Every day we strive to support you as healthcare professional in providing the right care and to keep healthcare affordable. The Klinion products are unique because of the right combination of functionality, quality and affordable pricing.

The Klinion skin adhesive has an intuitive, easy to use design. The design we use is called the SurgiSeal Stylus®. The innovative stylus applicator allows you to easily apply the topical skin adhesive.

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## Indications for use

The Klinion skin adhesive is intended for topical applications only to hold closed easily approximated skin edges of the following wounds:

- Simple, thoroughly cleansed, trauma induced lacerations
- Punctures from minimally invasive surgery
- Surgical incisions

Klinion skin adhesive may be used in conjunction with, but not in place of, deep dermal sutures.

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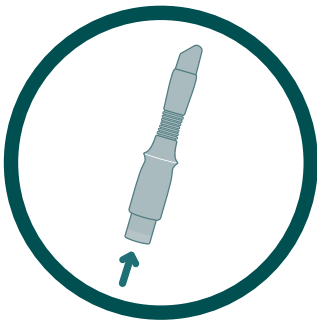
## Effective microbial barrier

In vitro studies have shown that the Klinion skin adhesive creates a microbial barrier on the wound. It forms a physical barrier to microbial penetration as long as the skin adhesive layer stays intact<sup>8</sup>. According to in vitro studies<sup>11</sup> the skin adhesive does not allow penetration of *Staphylococcus epidermidis*.

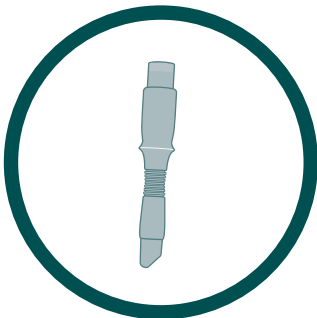
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# Preparation and application

Only three simple steps are needed to prepare and apply the topical skin adhesive<sup>8</sup>. The following steps need to be followed for optimal usage of the Klinion skin adhesive:



- 1.** Point the tip towards the ceiling and away from the patient. Press the bottom of the applicator upwards.



- 2.** Invert the applicator and allow the adhesive to flow through the tip. No squeezing is necessary in normal application. If greater flow is required, the ridged portion of the applicator may be very gently squeezed.

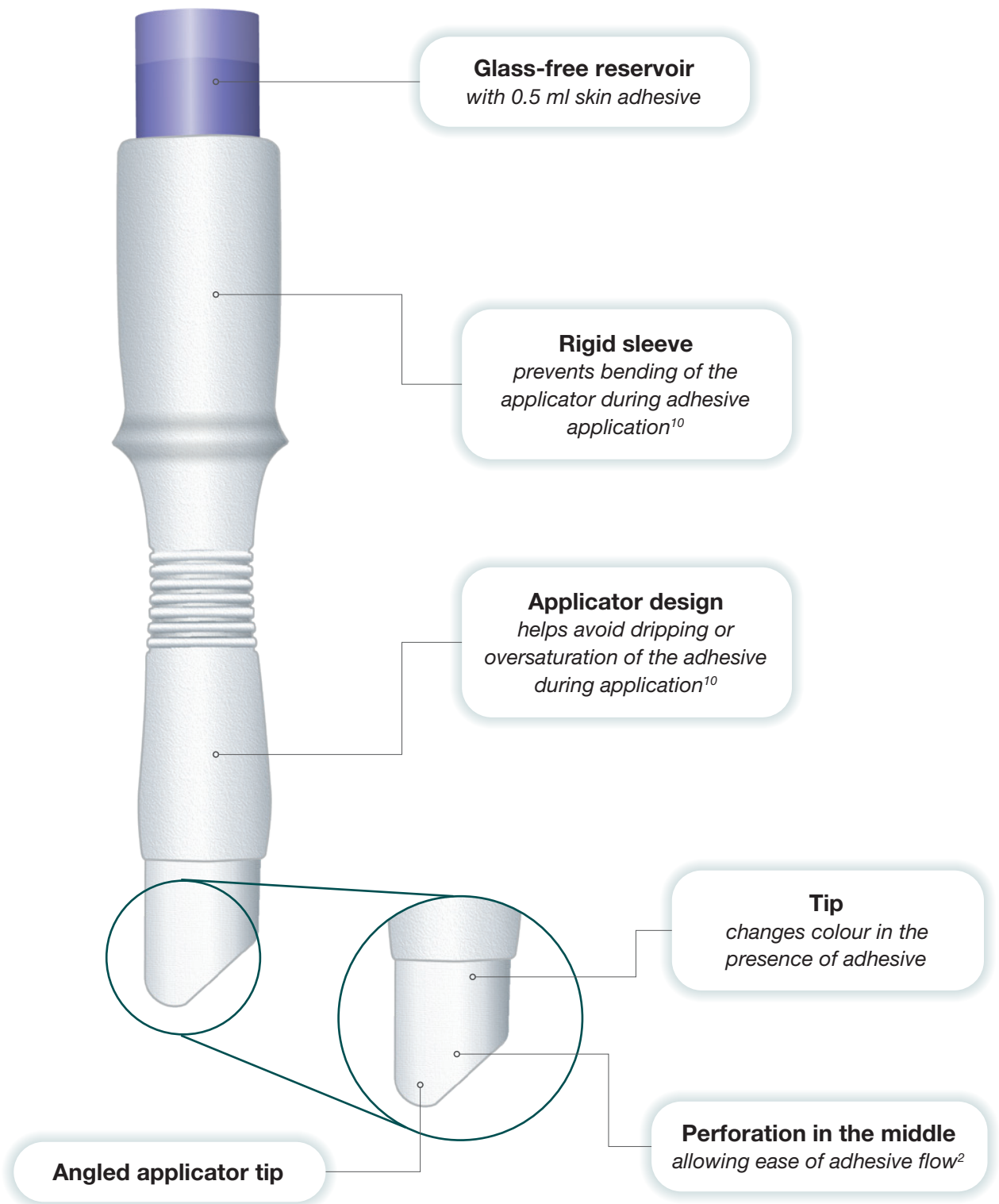
- It usually takes 2 to 5 seconds for the applicator tip surface to be completely saturated with adhesive<sup>10</sup>
- The applicator tip changes colour in the presence of adhesive<sup>8</sup>



- 3.** Hold the wound together and apply the Klinion skin adhesive slowly in either one thick layer or two thin layers<sup>8</sup>
  - If two thin layers are applied, allow 30 seconds dry time in between layers<sup>8</sup>
  - Wait approximately 60 seconds after applying the final layer to reach optimal strength<sup>8</sup>

# Designed for ease of handling and targeted application

A single, thick, continuously applied layer of topical skin adhesive may be enough to hold approximated wound edges closed for 5 to 10 days<sup>8,11</sup>.



# Proven strength and flexibility

The Klinion skin adhesive is substantially equivalent to Dermabond®<sup>1,2,12</sup>.

The strength and flexibility of the Klinion skin adhesive are comparable with the topical skin adhesive Dermabond® according to the standardized tests shown below<sup>1-7</sup>.

Mechanical Performance Testing: SurgiSeal Topical Skin Adhesive vs Dermabond® <sup>1-7</sup>		
	Average values (where applicable)	Comparable values to Dermabond®
Lap-Shear Tensile Loading <sup>†</sup>	<b>SurgiSeal</b> 14.48 lb/in sq <b>Dermabond®</b> 15.68 lb/in sq	✓
Adhesive & Sealant Wound Strength Under Tension <sup>‡</sup>	<b>SurgiSeal</b> 2.67 lb <b>Dermabond®</b> 2.36 lb	✓
T-Peel Tension Loading <sup>§</sup>	<b>SurgiSeal</b> 39.6 lb <b>Dermabond®</b> 27.1 lb	✓
Strength Under Tension Loading <sup>#</sup>	<b>SurgiSeal</b> 14.16 lb/in sq <b>Dermabond®</b> 10.88 lb/in sq	✓
Mandrel Bend Flexibility Testing <sup>¶</sup>	<b>All Samples Passed</b>	✓

**\*Mechanical Performance Testing is not necessarily indicative of clinical outcomes and performance.**

<sup>†</sup> Test adhered to protocol ASTM F 2255-05, Standard Test Method for Strength Properties of Tissue Adhesives in Lap-Shear by Tension Loading.<sup>3</sup>

<sup>‡</sup> Test adhered to protocol ASTM F 2458-05, Standard Test Method for Wound Closure Strength of Tissue Adhesives and Sealants.<sup>4</sup>

<sup>§</sup> Test adhered to protocol ASTM F 2256-05, Standard Test Method for Strength Properties of Tissue Adhesives in T-Peel by Tension Loading.<sup>5</sup>

<sup>#</sup> Test adhered to protocol ASTM F 2258-05, Standard Test Method for Strength Properties of Tissue Adhesives in Tension.<sup>6</sup>

<sup>¶</sup> Test adhered to protocol ASTM D 4338-97, Standard Test Method for Flexibility Determination of Supported Adhesive Films by Mandrel Bend.<sup>7</sup>

# Strong, flexible and easy to use



## Flexible

for flexibility without using a plasticizer<sup>1,2</sup>



## Intuitive design

For easy application



## Quick set time

Full apposition strength is expected to be achieved about 60 seconds after the final layer is applied<sup>8</sup>



## Short preparation

Only three steps are needed



## Antimicrobial

Creates a barrier on the wound



## Strong

Substantial equivalent to Dermabond<sup>®</sup>



## Referenties

1. US Food and Drug Administration. SURGISEAL Topical Skin Adhesive 510(k); May 30, 2008. 2. Adhezion Biomedical. SURGISEAL Stylus and Stylus Twist Topical Skin Adhesive abbreviated 510(k); May 2013. 3. ASTM International. ASTM F 2255-05. Standard Test Method for Strength Properties of Tissue Adhesives in Lap-Shear by Tension Loading. 2005. 4. ASTM International. ASTM F 2458-05. Standard Test Method for Wound Closure Strength of Tissue Adhesives and Sealants. 2005. 5. ASTM International. ASTM F 2256-05. Standard Test Method for Strength Properties of Tissue Adhesives in T-Peel by Tension Loading. 2005. 6. ASTM International. ASTM 2258-05. Standard Test Method for Strength Properties of Tissue Adhesives in Tension. 2005. 7. ASTM International. ASTM D 4338-97. Standard Test Method for Flexibility Determination of Supported Adhesive Films by Mandrel Bend. Reapproved 2004. 8. SURGISEAL Stylus Topical Skin Adhesive (2-octyl cyanoacrylate) [instructions for use]. Adhezion Biomedical, LLC; July 2015. 9. Microbial barrier analysis: SurgiSeal Topical Skin Adhesive vs. Dermabond Topical Skin Adhesive. May 2010. 10. Zhang S; Adhezion Biomedical. Evaluation of overall function performance of Stylus SURGISEAL. August 18, 2011. Report 2011-ABM-022. 11. Singer AJ, Quinn JV, Hollander JE. The cyanoacrylate topical skin adhesives. Am J Emerg Med. 2008;26(4):490-496. 12. Jones RG; Adhezion Biomedical. SurgiSeal Topical Skin Adhesive [premarket notification summary]. October 3, 2008. K082993



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