

 BioCer



HaemoCer[™] PLUS

Powder for Haemostasis
& Adhesion Prevention Barrier



HaemoCerTM PLUS

HaemoCer PLUS is a resorbable plant based haemostatic powder containing no animal or human components.

Natural

- Plant based
- Contains no animal nor human components
- Completely resorbable

Safe

- Rapid resorption minimizes risks of foreign body reactions and granuloma formation
- Reduction of homologous transfusions and blood donations

Effective

- Double enhanced absorption capacity
- Rapid off-the-shelf deployment, no special storage, defrosting of premixing
- Compact packaging reduces storage volume

Haemostatic Powder

Haemostasis occurs by rapidly accelerating the normal physiologic clotting cascade without participation of chemical or pharmaceutical ingredients.

Once in contact with blood, HaemoCer PLUS enhances the natural clotting cascade by rapidly dehydrating the blood and accelerating the concentration of platelets, red blood cells and coagulation proteins at the bleeding site. The second mode of action of HaemoCer PLUS is the formation of a robust gelled matrix that adheres to the bleeding site and forms a mechanical barrier to prevent further bleeding.

HaemoCer PLUS is rapidly resorbed by amylase within a few days without leaving any residues, depending on the amount of used material and the place of application.

Versatile use

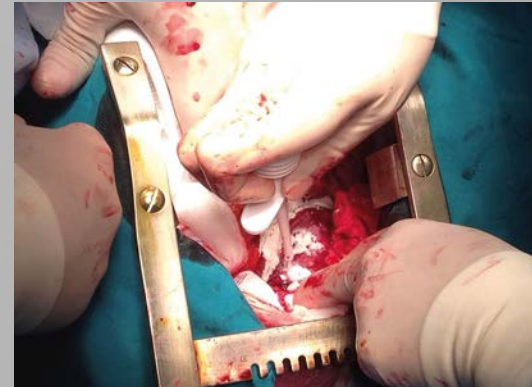
- Treatment of diffuse and localized bleeding
- For bleeding around suture lines
- Substitution of fibrin glue for haemostasis in vascular surgery
- Substitution of bone wax in bone bleeding
- Also usable with compatible filter cellsavers

Adhesion Prevention Barrier

Adhesions are scar tissue that can form after inflammations, surgical interventions or tumor diseases. This results in fan- or strand-like adhesions between organs or tissue surfaces in the abdominal cavity that are normally not connected to each other. Adhesions are usually caused by injury to the delicate organ membranes during surgery. Local inflammation also occurs with minute injuries or merely trauma to organs.

To build up the adhesion barrier, the powder is applied generously to the tissue to be protected and then moistened with sterile water or a saline solution. The HaemoCer powder absorbs the liquid and transforms into a protective gel layer. This barrier prevents contact with other tissue during the postoperative healing process.

This adhesion barrier can be created in both open and minimally invasive procedures. For this purpose, we have various HaemoCer applicators in our portfolio.



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Fields of Application

- Cardiac, Vascular and Thoracic Surgery
- General Surgery
- Transplant Surgery
- Traumatology
- Tumour Surgery
- Oral und Maxillofacial Surgery
- ENT Surgery
- Urology/Gynaecology
- Orthopaedics
- Burn Surgery
- Neurosurgery

Ease of use, impressive effect

Remove excess blood
by suction or gauze

Apply HaemoCer PLUS
immediately and extensively
to the wound site

Haemostasis →



Adhesion Prevention Barrier →

Remove all excess blood
by suctioning, wiping or dabbing

Generously apply HaemoCer PLUS powder to the
entire mesothelial defect and wound surfaces

Apply gentle compression
over the wound using dry gauze

Irrigate thoroughly prior to **gently removing the gauze**
to ensure the gelled matrix remains at the wound site



Moisten the powder with sterile saline solution or sterile water
until the powder is completely converted into a gel

Product Overview



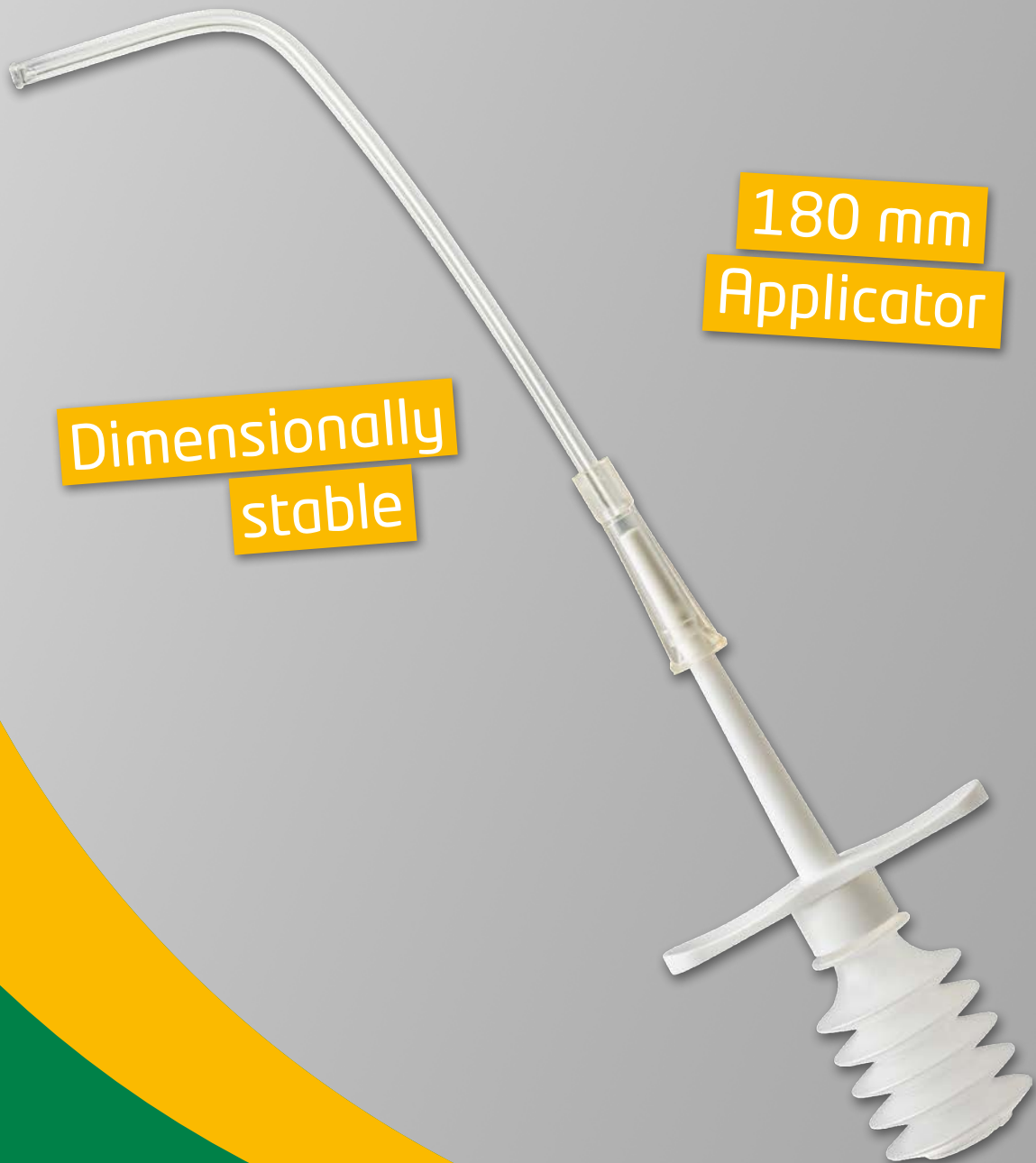
HaemoCer™ PLUS		
HFP201	1g	5 pcs
HFP202	2g	5 pcs
HFP203	3g	5 pcs
HFP205	5g	5 pcs



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BioCer-
Website



180 mm

Applicator

Dimensionally
stable

HaemoCerTM FlexApplicator

Malleable, efficient & varied





FLEX APPLICATOR

HaemoCer FlexApplicator is an accessory for our HaemoCer powder product line with standard applicator and can be installed easily. Because of its integrated wire, the HaemoCer FlexApplicator is bendable in different directions and still dimensionally stable.

HaemoCer or HaemoCer PLUS can be used at blind spots and complex challenging situations. HaemoCer FlexApplicator provides high flexibility and ensures a controlled and pinpoint dosage. A special rounded applicator tip prevents surgical lesions during application.

- Longer applicator for bleeding sites that are difficult to access
- HaemoCer FlexApplicator is bendable at several points at the same time and dimensionally stable to reach even difficult surgical sites.
- The transparency of the applicator enables a clear view to the amount of HaemoCer powder applied, therefore a controlled and pinpointed application is guaranteed
- Even after multiple bendings the powder freely flows through the applicator

Plug & Spray

A simple plug mechanism for fast and firm connection to our HaemoCer powder product line with standard applicator.





Atraumatic Applicator Tip

The atraumatic applicator tip prevents surgical lesions.

FLEX SET

FlexApplicator + Haemostatic Powder

The HaemoCer FlexApplicator is also available as a set together with the HaemoCer PLUS haemostatic powder.





Product Overview

HaemoCer™ FlexApplicator		
HFZ201	HaemoCer FlexApplicator	5 pcs

HaemoCer™ Flex Set		
HFS225	HaemoCer PLUS 5g (HFP205) + FlexApplicator (HFZ201)	1 set



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High
flexibility

440 mm
Applicator



HaemoCerTM Universal Applicator

For all minimally invasive surgeries





UNIVERSAL APPLICATOR

HaemoCer Universal Applicator is designed to deliver the haemostatic HaemoCer powder in laparoscopic, ENT, spinal and other MIS procedures. It guarantees precise application of APH particles to the bleeding site where this is mandatory. The delivery instrument can be easily attached to the HaemoCer or HaemoCer PLUS Standard Applicator and enables haemostat delivery under direction to the wound site for the control of capillary, venous and arteriole bleeding.

- Application in minimally invasive surgical procedures
- Longer applicator for deeper sourced bleeding
- Highly flexible enabling precise tip placement and offering enhanced handling and maximizing wound coverage capability
- Push-on coupling sheath offering simple and firm connection to HaemoCer or HaemoCer PLUS

Integrated Closure Clip

A integrated shut-off clamp prevents the powder from uncontrolled discharge





Innovative Applicator Tip

The applicator tip features a design which minimizes risks of blockage in case of contact with moisture

UNIVERSAL SET

Universal Applicator + Haemostatic Powder

The HaemoCer Universal Applicator is also available as a set together with the HaemoCer PLUS haemostatic powder.





Product Overview

HaemoCer™ Universal Applicator

HFZ101	HaemoCer Universal Applicator	5 pcs
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HaemoCer™ Universal Set

HFS125	HaemoCer PLUS 5g (HFP205) + Universal Applicator (HFZ101)	1 set
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Rules of Conduct



DRY

Remove excess pooled blood by suction or gauze – to ensure APH (Absorbable Polysaccharide Haemostat) particles are activated at the wound site.



APPLY

Apply HaemoCer PLUS immediately and extensively to the wound site ensuring the entire wound perimeter is fully and swiftly covered.



PRESS

Apply gentle compression over the wound using DRY gauze without any interaction.



IRRIGATE

Irrigate thoroughly prior to gently removing the gauze to ensure the gelled matrix remains at the wound site and is not torn away with the gauze.



WET

The APH particles will be activated on the top of the pooled blood only and will not assist clot formation at the wound site.



APPLY

Avoid applicator contact with blood. Don't construct small heaps or slowly and gradually apply APH particles.



PRESS

No twisting or turning with compression gauze. Using a wet gauze will activate APH particles from the top and risks pulling away the gelled matrix.



TEAR OFF

Don't disturb the gelled matrix after haemostasis has been achieved



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