68–100 %
fewer adhesions[1-7]

4DryField® PH

PROVIDES HEMOSTASIS – PREVENTS ADHESIONS

2 in 1 product

as powder: **hemostasis**

as gel: **adhesion prevention**

4DryField® PH – the innovative medical device for adhesion prevention and hemostasis makes the difference, because not all starch-based products are alike.

WORLDWIDE UNIQUE
CLINICALLY PROVEN
FOR ADHESION PREVENTION AND HEMOSTASIS

Studies show: **4DryField® PH** is the only starch-based adhesion barrier, whose efficacy is clinically proven.

Studies from gynecology, general surgery, urology, cardiac surgery, trauma surgery and more, retrievable from the WHO database (keyword: 4DryField).

Further advantages

- no recurrent small bowel obstructions[7]
- shorter re-interventions[8]
- fewer hematomas[9]
- fewer lymphoceles[10]
- avoids cauterization[11-12]

SAFE™ TECHNOLOGY
starch-based agent functionally engineered

Only **4DryField® PH** is produced using the **SAFE™ technology** for optimized adhesion prevention efficacy.

PlantTec Medical
MEDICAL SOLUTIONS INSPIRED BY NATURE

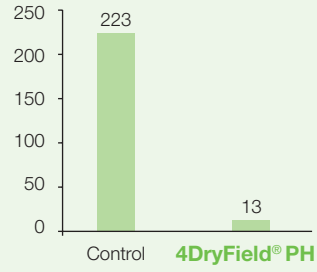
1. Poehnert et al. 2015, 2. Poehnert et al. 2016, 3. Winny et al. 2016a, 4. Winny et al. 2016b, 5. Poehnert et al. 2019, 6. Krämer et al. 2020, 7. Ahmad & Crescenti 2019, 8. Cesnjevar 2020, 9. Riebau et al. 2018, 10. Karsch et al. 2016, 11. Watrowski 2020, 12. Torres de la Roche et al. 2020

4DryField® PH in powder form
Immediate hemostasis

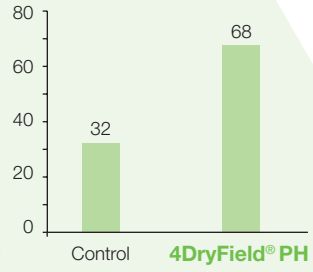
The hydrophilic microparticles dehydrate the blood, thereby concentrating clotting factors and platelets.

- **Acceleration of the entire coagulation cascade.**
- The patient's blood is transformed into a natural fibrin glue.

Clotting time [s],
50% HAES-diluted blood



Max. clot firmness [mm],
50% HAES-diluted blood



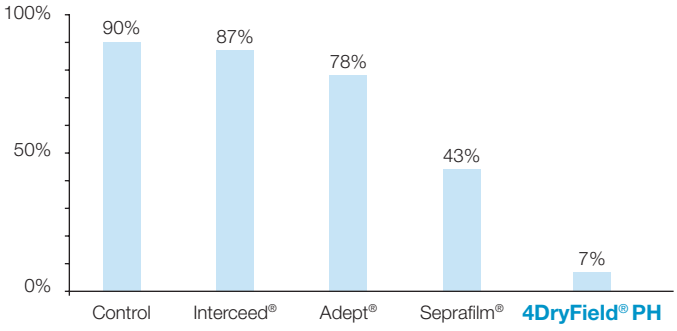
4DryField® PH significantly improves the clotting time (left) and clot firmness (right) even in diluted blood.[1]

4DryField® PH as a gel
Effective adhesion prevention

For adhesion prevention, **4DryField® PH** powder is transformed into a gel using isotonic saline solution.

The gel functions as a temporary, mechanical barrier preventing surgically traumatized tissues from adhering and ensuring separated healing of the respective surfaces.

Incidence of adhesions



4DryField® PH as a gel significantly reduces adhesion formation by 93%.[2]

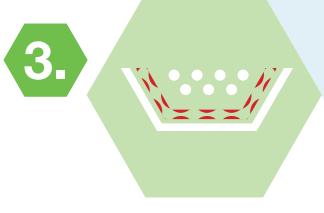
4DryField® PH absorbs multiple times its own mass in liquid within seconds. Thus, hemostasis is accelerated.

Cleaning & Drying

The area of bleeding that is to be treated should be as clean and as dry as possible.

Application

Direct application of **4DryField® PH** powder on the bleeding source. If necessary, apply pressure with a gauze pad.

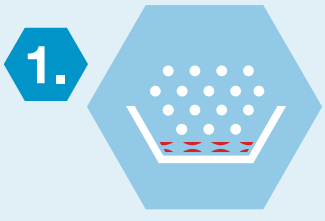


Bleeding stopped

If used, moisten gauze to remove.

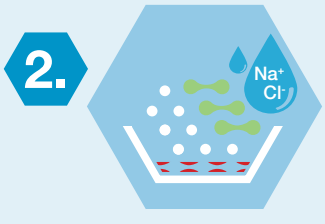
Retention time of the gel barrier is adjusted to the duration of mesothelial healing.

It is important that the gel is free of blood!



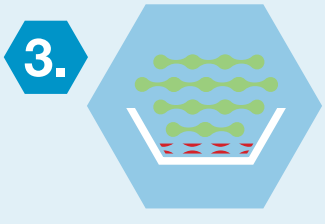
Application

Evenly cover the wound area with **4DryField® PH** powder.



Gel transformation

Sprinkle with 0.9% saline solution until the powder is transformed into a gel.



Gel dosage

Depending on application field and required viscosity 8-14 ml of saline solution per 1 g of **4DryField® PH** powder.

Blood · Tissue · 4DryField® PH powder · 4DryField® PH gel · Gauze · Clot · Saline solution

1. Hanke et al. 2011 ASA Meeting, 2. Poehnert et al. 2016 Int J Med Sci

PlantTec Medical GmbH
Bleckeder Landstraße 22
21337 Lüneburg
Germany

Tel.: +49 4131 394 23 60
Fax: +49 4131 394 23 8887
eMail: info@planttec-medical.de