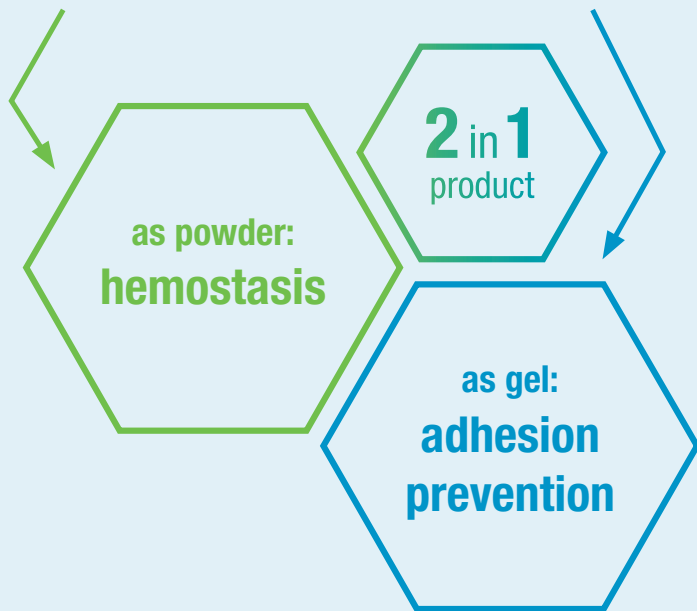




# 68-100 % fewer adhesions<sup>1-7</sup>

## 4DryField® PH

PROVIDES HEMOSTASIS – PREVENTS ADHESIONS



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



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<sup>7</sup>
- ▶ shorter re-interventions<sup>8</sup>
- ▶ fewer hematomas<sup>9</sup>
- ▶ fewer lymphoceles<sup>10</sup>
- ▶ avoids cauterization<sup>11-12</sup>



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

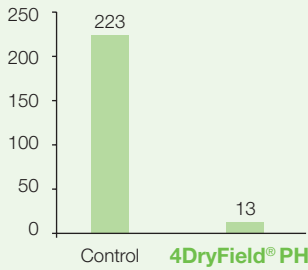


## 4DryField® PH in powder form Immediate hemostasis

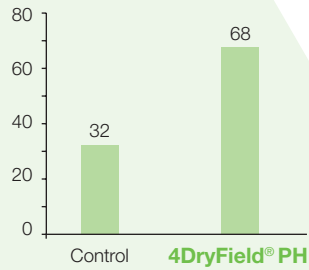
The hydrophilic microparticles dehydrate the blood, thereby concentrating clotting factors and platelets.

- ▶ **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.<sup>1</sup>

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

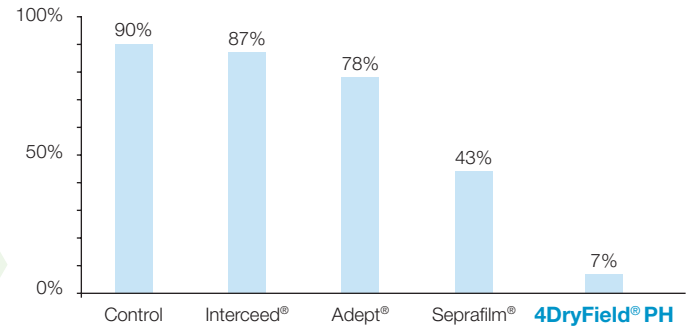
If used, moisten gauze to remove.

## 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.

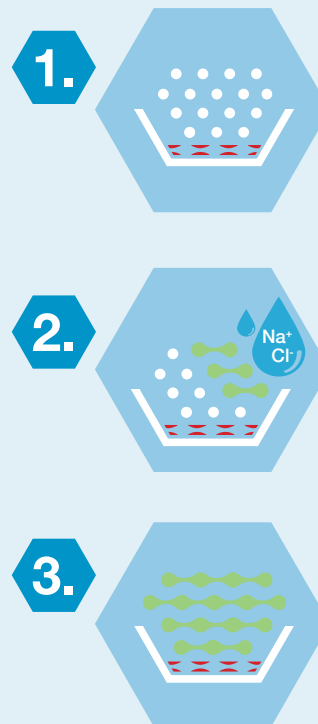
**Incidence of adhesions**



4DryField® PH as a gel significantly reduces adhesion formation by 93%.<sup>2</sup>

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