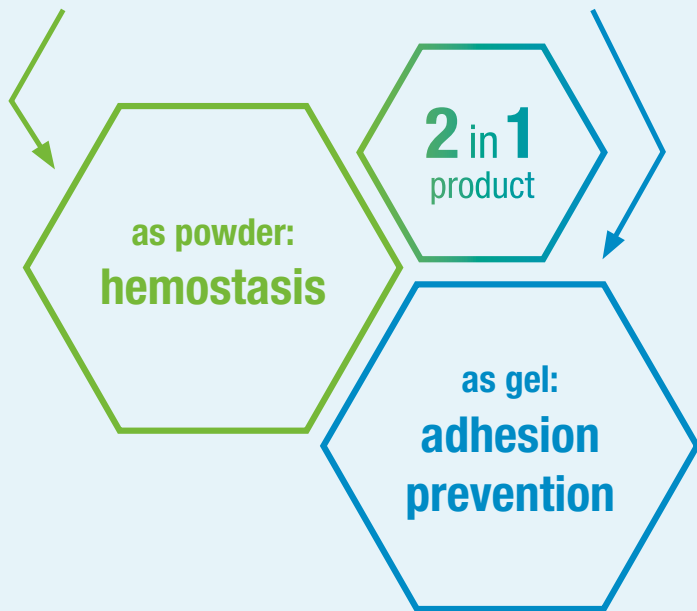




68-100 % fewer adhesions¹⁻⁸

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 obstructions⁸
- ▶ shorter re-interventions⁹
- ▶ fewer hematomas¹⁰
- ▶ fewer lymphoceles¹¹
- ▶ avoids cauterization¹²⁻¹³
- ▶ increases fertility¹⁴



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

4DryField® PH is one of the best adhesion barriers

(Krämer et al. 2021 Surg Technol Int)



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. 2021a, 7. Ziegler & De Wilde 2021, 8. Ahmad & Crescenti 2019, 9. Cesnjevar 2020, 10. Lucas et al. 2021, 11. Karsch et al. 2016, 12. Watrowski 2020, 13. Torres de la Roche et al. 2020, 14. Krämer et al. 2021b

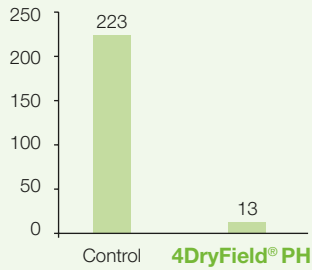
4DryField® PH in powder form

Immediate hemostasis

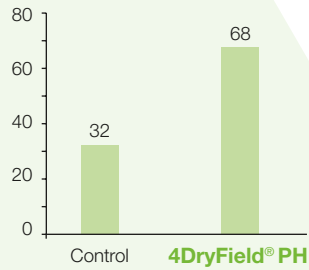
The hydrophilic microparticles dehydrate the blood, thereby concentrating clotting factors and platelets.

- ▶ **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 blood clotting (left) and clot strength (right) even in diluted blood. (Hanke et al. 2011 ASA Meeting).

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



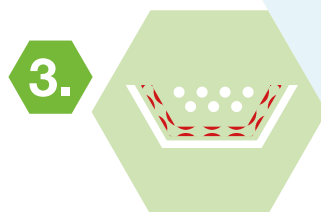
Cleaning & Drying

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.

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

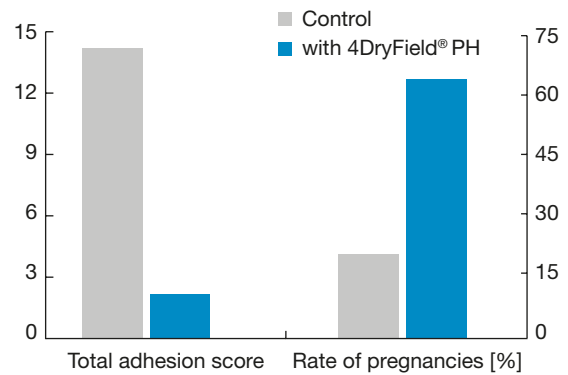
4DryField® PH as a gel

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.

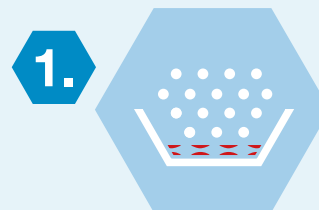
Results of randomized clinical trials with 2nd look:



4DryField® PH as a gel significantly reduces adhesion formation by 85% and also significantly increases pregnancy rates (Krämer et al. 2021 a+b).

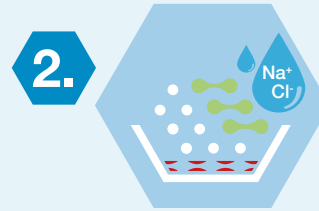
Retention time of the gel barrier is adjusted to the duration of mesothelial healing.

It is important that the gel is free of blood!



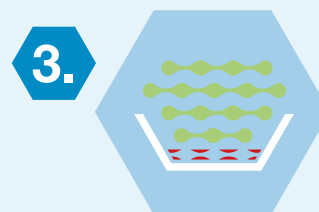
Application

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.



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