

PROVIDES HEMOSTASIS - PREVENTS ADHESIONS

Worldwide unique: CE-certified and clinically proven for

**Adhesion prevention & Hemostasis** 

SIMPLE. SAFE. EFFECTIVE.

No human or animal components.



# **Adhesions**

Common, chronic and costly

### Causes of adhesions

- Surgical trauma<sup>1,2</sup>
- Inflammation<sup>1,2</sup>
- Endometriosis<sup>1,2</sup>

# Clinical consequences

- Main cause of chronic pain<sup>3</sup>
- Main cause of secondary female infertility<sup>3,4,5</sup>
- Main cause of small bowel obstructions<sup>3,4,5</sup>
- Re-operations (in ~35 % of patients within 10 years)<sup>5,6</sup>

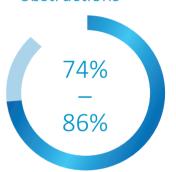
Incidence of postoperative adhesions<sup>7,8</sup>



Incidence after adhesiolysis<sup>8,9</sup>



Main cause of small bowel obstructions<sup>10,11</sup>



# Economic consequences







severe **burden** for patient and surgeon<sup>5,12-14</sup>



44.3% of **readmissions**directly or possibly related to adhesions<sup>5</sup>

# Clinically proven efficacy

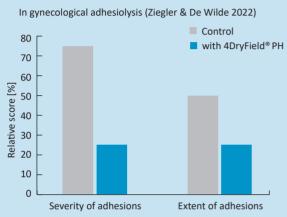
Confirmed in numerous clinical studies

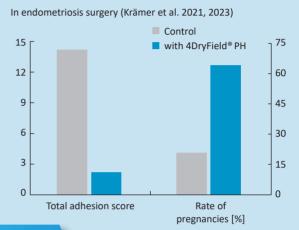
# 4DryField® PH gel

## as a mechanical barrier for adhesion prevention

Controlled, clinical studies with 2<sup>nd</sup> looks show:

Adhesion formation and fertility rates are significantly improved



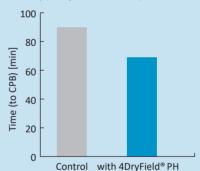


"Adhesion formation could be reduced significantly by 85% by application of the adhesion barrier 4DryField® PH."
Krämer et al. 2021 Langenbecks Arch Surg

"The modified starch-based device **4DryField®** gave **remarkable results** for an absorbable barrier." Krämer et al. 2021 Surg Technol Int

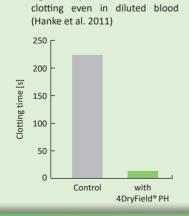
"During the follow-up, **none** of the patients experienced a **recurrent obstruction** episode. **This is a remarkable result."**Ahmad & Crescenti 2019 Surg J

**"4DryField® PH** in-situ-mixed gel reduced adhesions **significantly better** than **Adept®, Interceed®** and **Seprafilm®."** Poehnert et al. 2016 Int J Med Sci Significantly reduced re-operation time in a controlled pediatric heart surgery study (Cesnjevar et al. 2022)

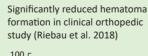


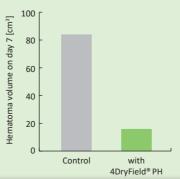
# 4DryField® PH powder

## for accelerated and improved hemostasis

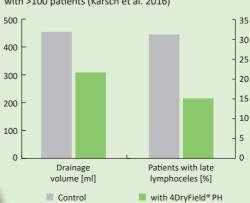


Significantly accelerated blood





Lymphostatic capabilities of 4DryField® PH after lymph node resection according to a clinical study with >100 patients (Karsch et al. 2016)



"the modified polysaccharide powder was capable of achieving **fast he-mostasis** of the diffuse bleeding, **avoiding coagulation**"

Torres-de la Roche et al. 2020 Arch Gynecol Obstet

### **SIMPLE**

#### Ready to use

#### **Easy application**

No special storage conditions

Simple and fast laparoscopic application with **4DFLap™** 

### SAFE

#### **Purely plant-based**

- No human or animal components
- No risk of disease transmission

#### Excellent tolerability<sup>1</sup>

- Not cytotoxic
- Up to 1 g/kg body weight is well tolerated
- Does not enhance viability of tumor cells
- Promotes recovery

#### Free of pyrogens<sup>2</sup>

Resorbed within 7 days1

No documentation requirement as per German

Transfusion Law

Also suitable for pediatrics

### **EFFECTIVE**

Immediate hemostasis<sup>3-14</sup>

Highly effective adhesion prevention8-24

1 g of **4DryField® PH** is enough for  $\sim$ 25 cm<sup>2</sup>

### **Further advantages**

- no recurrent small bowel obstructions<sup>19</sup>
- ▶ shorter re-interventions<sup>23</sup>
- fewer hematomas<sup>6</sup>
- fewer lymphoceles⁴
- avoids cauterization7,12,13
- increases fertility<sup>7,22</sup>





#### 4DryField® PH

| Catalog number | Contents |
|----------------|----------|
| SK0001-EU      | 5 x 1 g  |
| SK0003-EU      | 3 x 3 g  |
| SK0005-EU      | 3 x 5 g  |
| SK0009-EU      | 3 x 9 g  |

#### **4DFLap™** applicator



For laparoscopic procedures Ergonomic handpiece

Flexible inner hose with memory effect Suitable for current trocars from 5 mm

Catalog number Contents
LA0014-EU 14 cm
LA0038-EU 38 cm





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**4DryField® PH** and **4DFLap™** should not be exposed to extreme temperatures or direct light irradiation. Keep under normal hospital storage conditions.

Please find further information in the instructions for use at www.planttec-medical.de



