

# Hypro-Sorb<sup>®</sup> F

The natural atelocollagen membrane  
for guided bone and tissue regeneration  
in maxillofacial surgery and implantology



bilayer, native, resorbable

## General information

Hypro-Sorb® F Hypro-Sorb F is a rigid, bilayer membrane of pure, crystalline atelocollagen derived from the bovine Achilles tendon. It is the most rigid membrane in our portfolio and comes in three different sizes.

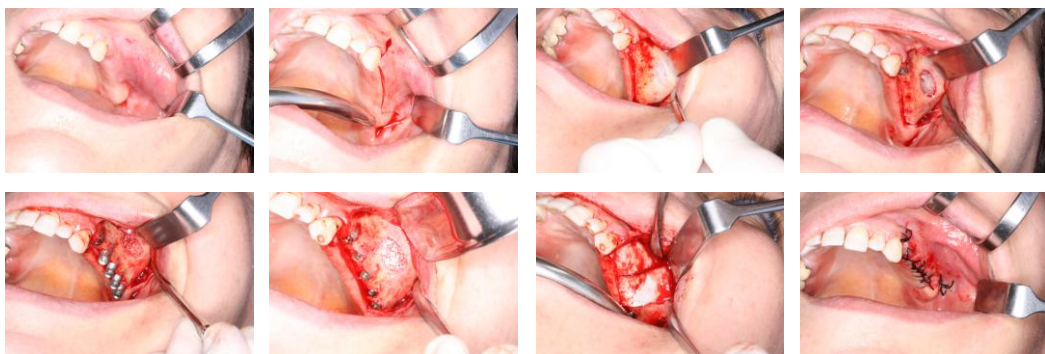
Hypro-Sorb F is 0.2 mm thick with high tensile and bending strength due to densely packed collagen fibers. Therefore, it is recommended to soak the membrane with saline or the patient's blood for at least 1 minute before application to facilitate handling.

The membrane is the result of many years of experience and an intensive research collaboration between scientific teams of Hypro s.r.o. and Bioimplon GmbH.

## Indications

Hypro-Sorb F is used in dental surgery and implantology or for the restitution of bone defects. It is used mostly by maxillofacial surgeons, and is indicated for:

- Cystectomy
- Segmental growing of the alveolar tissues
- Sinus Lift
- Resection of upper root
- Filling of the alveolus after resections in prothetic surgical practice
- Periimplantitis
- Maxillofacial surgery
- Cleft lip and palate



*Application of Hypro-Sorb® F and Hypro-Oss®  
– Images courtesy of Fahim Atamni, DDS*

## Properties of Hypro-Sorb F

The membrane consists of collagen type I of bovine origin. Due to its manufacturing process it has a bilayer structure with one smooth and one rough side. The smooth side has a compact surface. It seals off the cells to prevent lateral ingrowth of gingival tissue. The properties of atelo-collagen favor cell adhesion. This side of the membrane faces the soft tissue.

The rough side of the membrane consists of loosely and porously arranged collagen fibers. It activates cell invasion. This side is turned towards the bone defect to improve the integration of bone cells and to accelerate blood clot formation.

The resorption process happens in two phases. During the first six to eight weeks, Hypro-Sorb F stays intact. Only after that time does resorption start. It is completed within six months after the membrane has been adapted to the defect.

## Advantages of Hypro-Sorb F

- Pure, crystalline atelocollagen type I – free of immunogenic telopeptides
- Highest degree of tissue biocompatibility with excellent wound healing characteristics
- Reduced risk of dehiscence formation due to the texture and mild bacteriostatic effect of atelocollagen
- Quick adaptation to the defect due to its potent hydrophilic properties
- Can be attached with pins and suturing material
- Sufficiently long barrier function – resorption starts after six to eight weeks
- Naturally resorbable within six months – a second operation for membrane removal is not necessary
- Long shelf life – safe and sterile for five years after production
- Unmistakable rough and smooth sides



*Hypro-Sorb F, rough side*



*Hypro-Sorb F, smooth side*

# Important information

## Composition:

This product is a naturally pure (99.9% crystalline), absorbable, bovine, sterile atelo-collagen (99.9% collagen type I free of telopeptides)

## Shelf life:

The product is safe for five years after production.

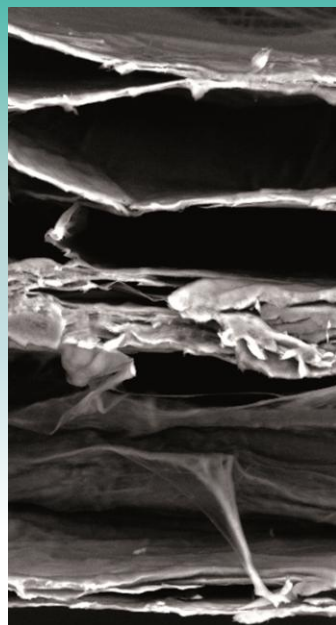
## Storage conditions:

Hypro-Sorb F must be stored in a dry place at a temperature between -25°C and +50°C.

It must be protected from direct sunlight.

## Postoperative care

In case of wound dehiscence with membrane exposure, the usual antimicrobial precautions are recommended. Removal of the membrane is not necessary. The resorption time may be accelerated by external influences such as saliva, etc. The properties of collagen may favour a rapid healing of the wound dehiscence.



Hypro-Sorb F: Electron microscope image

## Sizes

Name	Cat. No.	Size	Description
Hypro-Sorb F	023	15 x 20 x 0.2 mm	bilayer barrier for GTR/GBR
	024	20 x 30 x 0.2 mm	bilayer barrier for GTR/GBR
	025	30 x 40 x 0.2 mm	bilayer barrier for GTR/GBR

Hypro-Sorb® F is a medical device of class III. It was clinically tested and is certificated by notified body No. 1023, EC certificate No. 09 0627 QS/NB and EC Design-Examination Certificate No. 09 0628 CN/NB.