

remaix 
THE RESORBABLE MATRIX



Relax.
Remaix.

The membrane of choice
for reliable bone and tissue
regeneration



matricel 
ALL IT TAKES TO REGENERATE

Remaix properties

Remaix is a resorbable barrier membrane for use in guided bone regeneration (GBR) and guided tissue regeneration (GTR). Remaix is used to cover the space filled with bone graft material. This secluded space assists bone regeneration by protecting the slowly growing bone from infiltration with cells from the surrounding soft tissue.

Remaix is a highly purified membrane isolated from porcine tissues using controlled and standardized manufacturing processes. Remaix membrane is composed of a fibrous network of collagen and elastin fibers. The membrane creates a protected environment for bone regeneration in the defect area by providing a

barrier against migration of unwanted cells from the soft tissue and allows the ingrowth of osteogenic cells in the space of the bone defect. The fibrous network of Remaix membrane provides mechanical stability and prevents the migration of bone graft material.

Remaix is packaged in a double blister



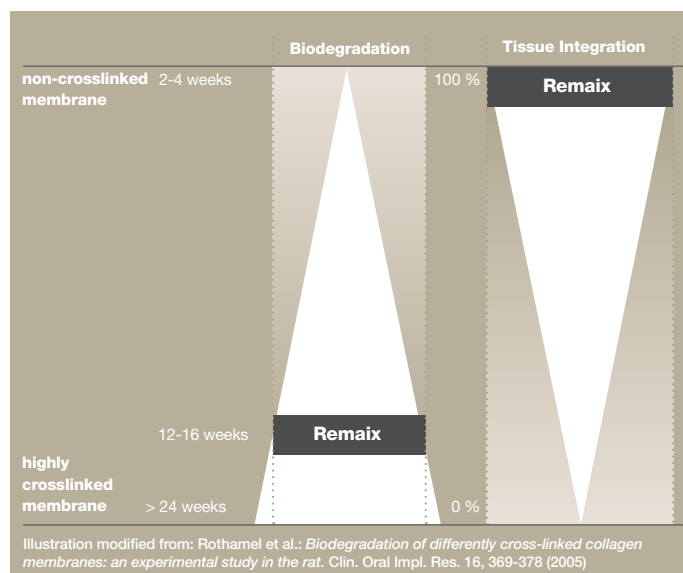
Discover the next re-generation



Remaix sets a new standard for resorbable membranes: High therapeutic safety due to the reliable barrier function, excellent bio- and cell-compatibility, very good handling properties and the option to combine Remaix with many different bone graft materials, provides the perfect support for new bone formation.

CRUCIAL - THE RELIABLE BARRIER FUNCTION!

Remaix is a resorbable membrane and therefore a second surgical procedure to remove the membrane is not required. The stability of resorbable membranes against degradation is of great importance. Several studies with non-crosslinked collagen membranes show that the barrier function is only given for a relatively short time period and may vary widely. On the other hand, non-crosslinked membranes exhibit a good tissue integration and vascularization. Therefore, the focus during the development of Remaix was to obtain a membrane with a reproducible higher stability against degradation, without making any concessions regarding its tissue integration.



Slow biodegradation combined with 100% tissue compatibility

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- High therapeutic safety
 - Excellent biocompatibility
 - Easy to use



THE USE OF MEMBRANES IN BONE AUGMENTATION

The use of barrier membranes has become the clinical standard for GBR and GTR procedures. To achieve a reliable treatment outcome in bone grafting, the professional societies recommend the use of barrier membranes in combination with bone graft materials. Scientific studies show that bone formation and survival rate of implants increases, when membranes are used. In the U.S., the FDA recommends the use of appropriate membranes during bone regeneration to prevent the migration of bone augmentation particles.

HOW RELIABLE IS THE BARRIER FUNCTION?

Providing a product with a high therapeutic safety and a reliable and reproducible barrier function was the key objective during Rемаix development. We managed to achieve a very high resistance of the membrane towards resorption, without impairment of tissue compatibility. In comparative studies with other non-crosslinked membranes, we have shown that the resorption rate of Rемаix is much slower.

WHAT HAPPENS DURING DEGRADATION OF REMAIX?

Remaix will be integrated into the surrounding tissue and will be resorbed as a result of the body's natural processes. Resorption of Rемаix does not involve the release of toxic degradation products. Neither release of foreign substances (as a result of the use of crosslinking agents), nor pH shifts (as observed during breakdown of synthetic biopolymers) will occur during resorption of Rемаix.

EXCELLENT HANDLING

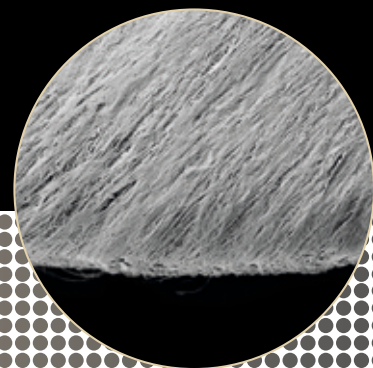
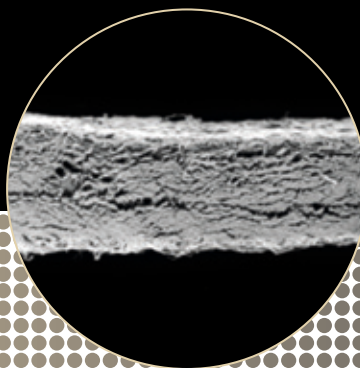
Remaix can be processed safely and easily, even when the membrane is hydrated. Due to its high stability, it does not tear. It adapts ideally to the tissue and the bone graft material. This saves you valuable time!

IS REMAIX CHEMICALLY CROSSLINKED?

No, during manufacturing of Rемаix, no chemical crosslinking is used. In the scientific literature, extensive chemical crosslinking is associated with an increase of the dehiscence rate.



- can be combined with many different bone graft materials
- no preferred orientation – usable on both sides



IS THERE A CONFUSION RISK OF MEMBRANE SIDES DURING APPLICATION?

No, there is no preferred orientation of Remaix during application. Remaix can be applied on both sides.

IS A REHYDRATION OR WASHING STEP OF REMAIX REQUIRED BEFORE APPLICATION?

No, Remaix is highly hydrophilic and is rehydrated within seconds. Additionally, Remaix does not contain potentially toxic remnants of manufacturing or crosslinking processes.

IS REMAIX SAFE?

Yes, comprehensive assessments of Remaix were performed demonstrating its safety. The porcine starting materials are harvested in EU certified facilities in Germany under strict veterinary controls. Validated process steps are implemented to guarantee the viral safety of Remaix. There is no TSE or BSE risk.

CAN REMAIX BE COMBINED WITH DIFFERENT BONE GRAFT MATERIALS?

Yes, Remaix can be combined with synthetic and xenogeneic bone graft materials, autologous bone and mixtures thereof.

QUALITY ASSURANCE

Remaix is a CE certified Class III medical device. An extensive conformity assessment procedure has been performed according to the European Directive on Medical Devices 93/42/EEC. The Quality Management System of Matricel is certified according to ISO 13485:2010 for the development, production and distribution of biomaterials for applications in medicine, pharmaceuticals and biotechnology. All products are developed and produced in Germany.

PLEASE CONTACT US:

We are a very enthusiastic team with the clear focus to develop and produce innovative products of highest quality. We will be pleased to share our know-how with you and to convince you of our innovative solutions.

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Available sizes



Remaix membranes are packaged in double blisters and available in the following sizes:

Ordering No.	Product size	Packaging unit
REM3040	30 mm x 40 mm	1 Remaix membrane
REM2530	25 mm x 30 mm	1 Remaix membrane
REM1520	15 mm x 20 mm	1 Remaix membrane

Ordering details and other information about Remaix are available on the Internet at:

www.remaix.info or www.matricel.com and by phone: +49-2407-564420

About Matricel

Matricel is certified in Europe and Australia as a manufacturer of medical devices and pharmaceutical raw materials, which are used in regenerative medicine. The Remaix membrane is a further development of the ACI-Maix membrane. ACI-Maix is, when seeded with patient's own cartilage cells, one of the world's first products used clinically for tissue engineering of articular cartilage. The requirements for cell seeded matrices are higher when compared to cell-free medical devices.



GMP production in Matricel's cleanrooms