chronOS Putty – Trauma. The hyaluronic solution.

Optimal remodeling

Flexible handling

Osteoinductive with bone marrow
chronOS Putty – Trauma. The hyaluronic solution.

**Optimal remodeling**

**chronOS Granules**
chronOS Putty consists of chronOS Granules and sodium hyaluronate of non-animal origin. chronOS is made of pure β-tricalcium phosphate (β-TCP).

**Osteoconductive**
- Optimised pore size scaffold for bone tissue infiltration
- Interconnected pores for bone growth through the whole implant

**Resorbable**
- Replacement of chronOS by host bone in 6 to 18 months depending on the indication and the patient condition

**100% Synthetic**
- Controlled quality

**Flexible handling**

**Sodium hyaluronate**
Sodium hyaluronate is a polysaccharide naturally occurring in the human body. It plays an essential role in cell proliferation, migration and adhesion and has been correlated to angiogenesis. Sodium hyaluronate has also been shown to stimulate bone formation.

The synthetic sodium hyaluronate is proven to be safe. It provides optimal handling properties and confers positional stability to the product.

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**References**

Osteoinductive with bone marrow

Bone marrow aspirate
Autologous bone marrow features an optimal osteogenic potential. Perfusion of chronOS with bone marrow or blood introduces blood cells, growth factors, and, in the case of bone marrow, osteoprogenitor cells. Perfusion of chronOS with bone marrow aspirate initiates fast remodeling into new bone.

- 4 times more bone 6 weeks postoperatively if perfused with bone marrow vs. blood.
- Clearly remodeling of chronOS into new host bone 12 weeks postoperatively.

Benefits of chronOS Putty

No wash-out
X-ray visibility
Ideal carrier platform
Added osteoinductivity
Accelerated remodeling

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Indications*

chronOS Putty with autologous bone marrow, blood and/or antibiotic solutions is intended for use in trauma indications, such as:
- Complex cases (non-unions, pseudarthrosis, comminuted fractures)
- Acetabulum and iliac crest

* For complete indications, contraindications, precautions and warning notices, please refer to the instructions for use.

Ordering information

chronOS Putty for Trauma

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Bone Marrow Aspiration System (BMAS)

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Manufactured by:
Mathys AG Bettlach
Güterstrasse 5
CH-2544 Bettlach

Distributed by:
Synthes GmbH
Emattstrasse 3
CH-4436 Oberdorf
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