

LEADING REGENERATION

Geistlich



**Membrane
Fixation**
with Precision



distributed by
Geistlich
the regeneration
experts

Membrane Fixation System

Guided bone regeneration (GBR) is based on the combined use of a bone substitute and a barrier membrane, which has the dual purpose of:

- Isolating and protecting the hard tissue avoiding the infiltration of fibroblasts at the site to be regenerated
- Stabilizing the graft material to allow clot stabilization and optimal formation of new bone

For proper healing it is essential to avoid movement of the biomaterials^{1,2}. Fixation of the membrane using a mechanical system can be a suitable option to help achieve stability and improve long term outcomes³.

Key Benefits:

- > No pre-drilling of the site required
- > Can be used in very compact bone
- > Tack shape designed for easy removal
- > Blue tack coloring facilitates detection under soft tissues

References

- 1 Nevins M et al., Int J Periodontics Restorative Dent. 1992; 12(2):96-111
- 2 Wikesjo UM et al., J Periodontol. 1990; 61(12):719-724
- 3 Hutmacher D et al., Implantologie. 1998; 3:213-230

Supertack Anatomy

HEAD

1 The top side, has a diameter compatible with most available existing systems. The carefully studied profile is easily grabbed with the tip of the placement instrument. 2 The unique beveled edge offers easy removal action, while the underside surface (facing the bone) is flat 3, which provides a stable, uniform pressure on the membrane.

STEM/SHANK

4 The conical shank rises from the head with a diameter substantially greater than that of other systems. This, along with the radius of the connection, 5 greatly increases resistance to bending. The taper of the stem, which allows for easy removal, requires a retentive collar 6 that uses the natural elasticity of the bone for locking the tack. The calibrated tip 7 is sufficiently sharp for penetration in dense bone and was developed at an angle close to 90° to obtain a high flexural strength. Incorporating these features 4 - 7 in a 3 mm shank allows the SuperTack to penetrate a high-density cortical bone where previously considered impossible.



The cobalt blue is result of an anodization process of the titanium and facilitates detection under soft tissues. Decontamination, plasma cleaning and clean room packaging all follow parameters of absolute excellence.

Product Information

- › A normal sterilization cycle is required prior to utilization of the fixation tacks. A class B steam autoclave is recommended.
- › It is not necessary to create a pin hole prior to insertion of the tacks as they are designed to penetrate and anchor effectively, even in very compact bone.
- › Fixation tacks are equipped with a “harpoon” that effectively secures them in the bone.
- › The shape and structure of the tacks, manufactured with surgical grade titanium alloy, supports effective penetration and stability, even in mandibular bone.
- › Tacks are easily removed due to the design of the underside of the tack head which facilitates grip during removal.

Precision Supertack System

The Precision Supertack System is composed of titanium tacks and a set of instruments that allow quick, optimal application and simple fixation of the membrane. The medical grade polymer container is suitable for the cleaning, disinfecting and sterilization of the instruments after use.

BASIC SET INCLUDES:

- > Tack Organizer with Retaining Lid
- > Aluminum Tack Placement Instrument
- > Standard & Long tips



Mallet



Aluminum Tack Placement Instrument



Stainless Steel Tack Placement Instrument



Standard tip



Long tip



Offset tip



Tack Organizer



3mm Supertack
Sold Separately

ADVANCED SET INCLUDES:

- > Mallet (Stainless Steel)
- > Tack Organizer
- > Stainless Steel Tack Placement Instrument
- > Standard, Long & Offset tips



STARTER SETS ARE ALSO AVAILABLE:

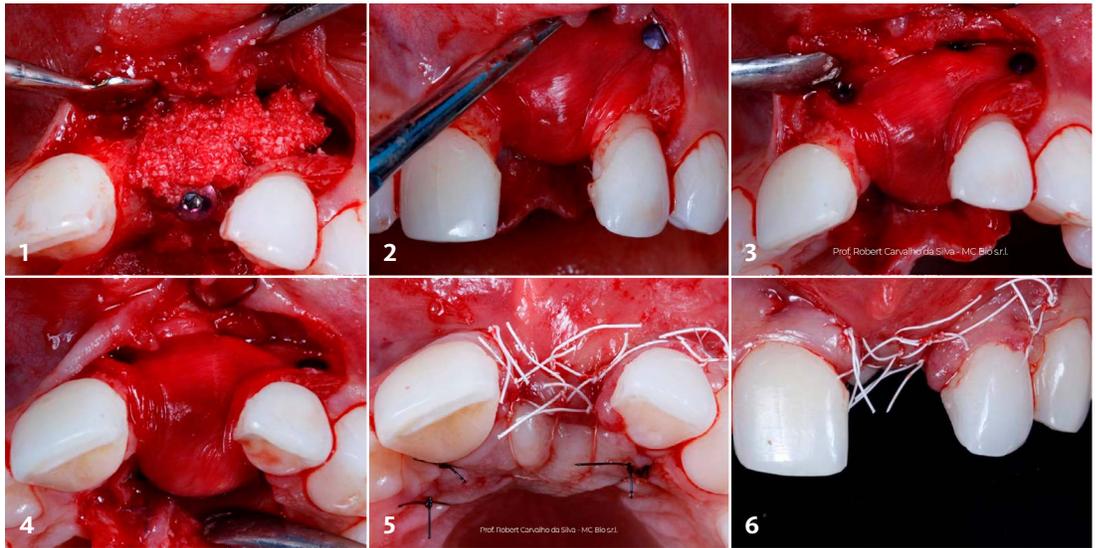
(Tack Organizer, Aluminum Tack Placement Instrument and Standard tip)

Vertical Ridge Augmentation with Geistlich Bio-Gide®, Geistlich Bio-Oss® and the Precision Supertack System



Surgery by: Prof. Robert Carvalho da Silva (Sao Paulo, Brazil)

“With the Precision Tack System, I can quickly and easily secure the barrier membrane over the graft material, in vertical bone augmentation cases.”



- 1 Following placement of the implant, Geistlich Bio-Oss® is placed into the defect.
- 2 Placement of Geistlich Bio-Gide® over Geistlich Bio-Oss® to prevent early soft tissue ingrowth and to stabilize the graft.
- 3 Geistlich Bio-Gide® is secured in place with the Supertacks.
- 4 Occlusal view showing Geistlich Bio-Gide® securely in place.
- 5 Occlusal view showing the flap with mattress sutures and palatal sutures in place.
- 6 Labial view of the completed procedure.

Insertion & Removal Procedure



- 1 Insert the tacks into the organizer with cotton pliers (recommended) after proper sterilization procedure is followed.
- 2 Remove the tacks with the appropriate placement instrument by pressing down on the tack head.
- 3 Insert the tack into place and fix the membrane with the mallet.
- 4 To disengage the tack from the placement instrument, tilt it slightly to one side.
- 5 To remove the tack, a small incision above the site it was implanted, is sufficient.
- 6 Remove the tack by prying upwards from the conical portion beneath the tack head.

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MC Bio s.r.l.
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Membrane Fixation System

SETS

| Product | Contents | Product Number |
|--------------|---|----------------|
| Advanced Set | Mallet, Tack Organizer, Stainless Steel Tack Placement Instrument, Standard, Long and Offset tips | 9574300 |
| Basic Set | Tack Organizer, Aluminum Tack Placement Instrument, Standard and Long tips | 9574290 |
| Starter Set | Tack Organizer, Aluminum Tack Placement Instrument, Standard tip | 9574310 |

INDIVIDUAL PRODUCTS

| Product | Description | Product Number |
|---|--|----------------|
| Mallet | Stainless Steel | 9100340 |
| Tack Organizer | Tack Organizer with Retaining Lid | 9570880 |
| Stainless Steel Tack Placement Instrument | Stainless Steel Tack Placement Instrument | 9570562 |
| Aluminum Tack Placement Instrument | Aluminum Tack Placement Instrument | 9570777 |
| Standard tip | 40 mm | 9570550 |
| Long tip | 65 mm | 9570650 |
| Offset tip | Designed for expanded access | 9570870 |
| Back Applicator | Designed for application in the lingual area | 9570750 |
| Back Applicator tip | Replacement tip for back applicator | 9570755 |

TACKS

| Product | Size/Quantity | Product Number |
|-----------|---------------|----------------|
| Supertack | 3 mm, 5 pcs | 9514010-5 |
| Supertack | 4 mm, 5 pcs | 9514014-5 |
| Supertack | 5 mm, 5 pcs | 9514020-5 |
| Supertack | 3 mm, 10 pcs | 9514010-10 |

EXACTLY
like no other.

For more information, please visit:
dental.geistlich-na.com

CAUTION: Federal law restricts these devices to sale by or on the order of a dentist or physician.

For more information on contraindications, precautions, and directions for use, please refer to the Instructions for Use at:
dental.geistlich-na.com/ifu

Geistlich Bio-Oss® and Geistlich Bio-Gide®,
the ideal solution for Guided Bone Regeneration.

