

FAQs of botiss grafter

01. What is the advantage of the botiss grafter compared to other available applicators?

- Allows individual filling with a selected particulate bone substitute of choice, matched to the treatment concept and the desired properties (e.g. high volume stability, fast regeneration)
- Additionally enables use with autologous bone and with mixtures of various materials
- Designed specifically for dental use, the integrated funnel and removable sieve cap permit convenient filling and hydration
- Delivered sterile and ready-to-use

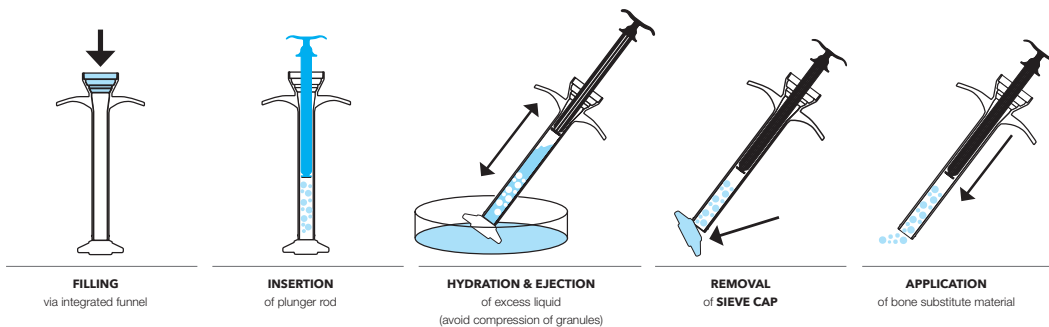
02. How to use the botiss grafter?

To start with, the selected material is easily filled into the syringe via the integrated funnel.

Subsequently, the plunger rod is inserted and the bone substitute material is hydrated by moving the plunger rod upwards and downwards for at least 3 times.

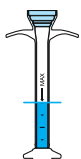
Excess liquid is removed by pushing down the plunger rod.

After removing the sieve cap, the bone substitute material can be applied into the defect (e.g. extraction socket, maxillary sinus).



Handling video:
<https://botiss.com/product/botiss-grafter/#video>

03. What should be paid attention to when using the botiss grafter?



Maximum filling volume

Do not exceed the indicated maximum filling level of 2 ml (cc) to ensure sufficient volume for the plunger rod to move upwards and downwards for optimal hydration.

The maximum filling level is marked on the syringe body with an arrow and the word "MAX".

Hydration without compression

For hydration, at least 3 up- and downward movements of the plunger rod with visible swirling of the bone substitute material have to be performed. Subsequently, excess liquid is removed by pushing down the plunger rod without compressing the bone substitute material excessively.



Removal of the sieve cap after hydration

After hydration the sieve cap is removed by snapping it off (e.g. by using the thumb).

04. What are the indications for the botiss grafter?

The botiss grafter is used in dental restorative surgery according to the indications of the selected bone substitute material.

05. Which products can I use with the botiss grafter?

The botiss grafter enables convenient hydration and efficient application of various particulate bone substitute materials.

It is ideally suited for use with cerabone®, maxresorb® and maxgraft®, but can also be used with other materials if they have similar product properties. Furthermore, it allows the application of mixed bone substitute materials (e.g. cerabone® combined with maxgraft®) and the use with autologous bone chips.

→ **Autografts • Allografts • Bovine Bone • Synthetics**

06. Are there any restrictions regarding the particle size of the used bone substitute material?

In the development of the botiss grafter, the different particle sizes of cerabone®, maxresorb® and maxgraft® have been evaluated. For cerabone®, maxresorb® and maxgraft®, no restrictions have to be considered regarding particle size.

07. How to apply a mixture of different materials with the botiss grafter?

The botiss grafter allows the application with mixtures of different materials (e.g. cerabone® with maxgraft® or cerabone® with autologous bone chips). For homogeneous mixing, the materials can be combined outside of the applicator in the desired ratio and can then be filled in together. Alternatively, the materials can be filled into the applicator one after the other.

08. Is it possible to use the botiss grafter with cerabone® plus?

For hydration of cerabone® plus, thorough mixing of the material is required to distribute the hyaluronate homogenously and achieve formation of an optimal consistency. When hydrating cerabone® plus within the applicator, a homogenous mixing and distribution of the hyaluronate cannot be guaranteed in every case. Therefore, the use of the botiss grafter with cerabone® plus cannot be recommended.

Upon hydration, cerabone® plus forms an easy to apply connected mass due to the contained hyaluronate. Therefore, the use of an applicator offers no additional benefit in the specific case of cerabone® plus.

09. Is it possible to use patient blood for hydration of bone substitute material in the botiss grafter?

The liquid used for hydration is to be selected according to the instructions for the bone substitute material. In general, there is no reason why patient's blood cannot be used. In this case, a sufficient amount of blood is required to ensure hydration by at least 3 upward and downward movements of the plunger rod with visible swirling of the bone substitute material.

10. After removal of the sieve cap, can the bone substitute material be applied directly into the bone defect?

Following removal of the sieve cap, the bone substitute material can be applied directly into the defect.

Please note: The sieve cap **must not** be removed until the bone substitute material has been filled in and hydrated.

11. Does the botiss grafter need to be sterilized before use? Can it be reused?

The botiss grafter is provided sterile, it is intended for **single use** only. It must not be resterilized or reused.

During reprocessing, resterilization or reuse of the applicator, the original function of the botiss grafter cannot be guaranteed and cross-contamination cannot be excluded.
