Augma Biomaterials Ltd.

is a dynamic, innovative Israeli company, that develops bone substitutes and accessories for bone augmentation in maxillofacial surgery. The activity of the company is based on two main aspects:

- Development of novel augmentation products that are based on the challenges that dental clinicians face and are derived from years of personal clinical experience.
- Service and broad support for clinicians to ensure better faster and readily achievable clinical results

The idea of forming the company was born from the need of the developer Amos Yahav DMD, to find a bone graft substitute that could serve clinicians in a wide spectrum of indications, with the aim to find the ultimate bone graft substitute.

Ultimate Requirements from Ideal Bone Graft

	Biphasic calcium sulfate based Bone cements	Autogenous bone graft	Conventional existing bone grafts
Safe and predictable	V	V	V
Minimal invasive surgery	V	X	X
Easy to manipulate	V	X	X
Fast procedure	V	X	X
Regeneration	V	V	X
Fast healing	V	V	X
Reasonable costs	$	$$	$$$

Augma™ BIOMATERIALS USA

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Augma™ BIOMATERIALS USA

It's my bone!

Bond Apatite® A bone graft cement

Augma Biomaterials Ltd flagship novel product is premade composite graft formulation of biphasic calcium sulfate cement matrix with hydroxyapatite granules in a controlled particles size distribution.

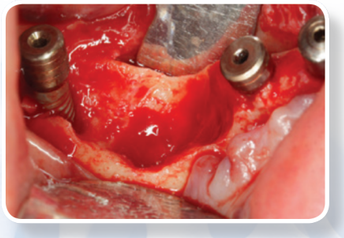
Bond Apatite® is a cement-based, osteoconductive composite, mineral bone substitute that is used for bone reconstruction and regeneration in the maxillofacial and dental alveolar applications and is intended for filling, augmenting and reconstructing a broad range of bone defects.

Bond Apatite® is composed of 2 matrices which have different absorption coefficients and characteristics. The first matrix is a patented biphasic calcium sulfate which is absorbed and replaced completely with the patient's own bone. The second matrix is a formula of hydroxyapatite granules which serves as a longer range space maintainer. The product guarantees minimal invasive surgical procedure, reduced treatment time and convenient manipulation of the graft material for the clinician and his patients., due to the product's unique nature and the specially designed syringe. In less than a minute the entire graft placement and stabilization can be achieved, even in the most challenging situations. No membrane may be used with Bond Apatite® during the grafting procedures.

Bond Apatite® is FDA cleared and CE approved.

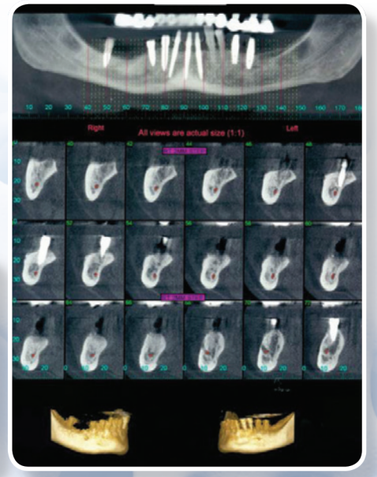
7 Reasons to switch to Bond Apatite®

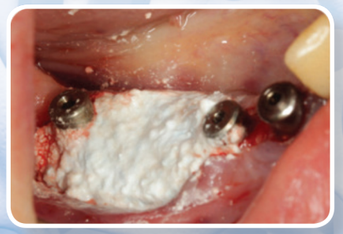
- Minimal invasive surgical protocol
- Easier and faster application
- Regenerate the patient own bone
- Enhance the healing with higher predictability
- No membrane
- Reduce chair time
- Great value

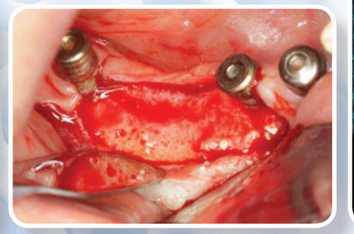


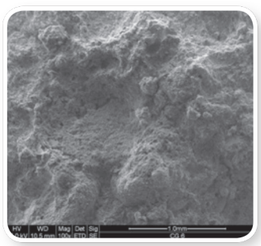
Clinical case 2:

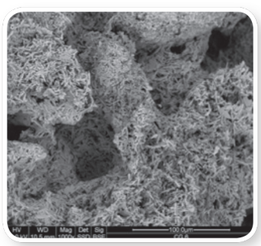
Augmentation using **Bond Apatite®** for large bone destruction after removal of a hopeless tooth.

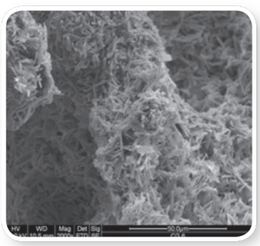












Bond Apatite® Internal structure divided into macro and micro porosities in various magnifications (SEM images).

3D Bond™ A graft binder cement

3D Bond™ is a patented unique graft binder cement made of pure biphasic calcium sulfate and represents a breakthrough in the field of maxillofacial augmentation. **3D Bond™** is the only bone cement of its type that sets within a short time after being placed, even in the presence of blood and saliva – characteristic unique in the oral cavity. **3D Bond™** is completely resorbed and replaced within 4-10 weeks; the exact amount of time required for bone regeneration. The result is a complete conversion from the graft material to the patient's own bone within the shortest, most optimal time period. Therefore, by itself it is the ultimate grafting solution for socket preservation procedures.

For larger bone defects, **3D Bond™** as a short-term space maintainer, cannot be used by itself. Therefore, in such cases when the clinician wants to create their own composite graft, **3D Bond™** can be used in combination with a wide range of bone substitutes which have longer absorption times, thus allowing clinicians to perform more complex augmentation procedures and achieve better results beyond the conventional bone grafting methods. The other option is to use our already premade composite graft **Bond apatite®**

3D Bond™ is extremely biocompatible, and the development of **3D Bond™** was motivated by a strong clinical need to significantly simplify and streamline the variety of complex augmentation processes. The aim being to reduce both the work and recovery times, while enhancing the healing and the quality of bone regeneration at the lesion site. These advantages are offered at a great value, allowing treatment availability to maximum number of patients.

7 Reasons to switch to 3D bond™

- Minimal invasive surgical protocol
- Easier and faster application
- Regenerate the patient own bone
- Enhance the healing with higher predictability
- No membrane
- Reduce chair time
- Great value

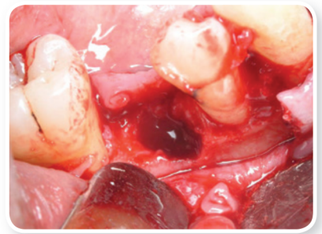
Indications for using 3D Bond™

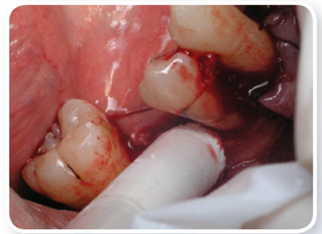
1. Socket grafting procedures
2. In combination with other granular augmentation materials, as a composite graft with other granular augmentation materials, expanding the indications for a wider range of defects.

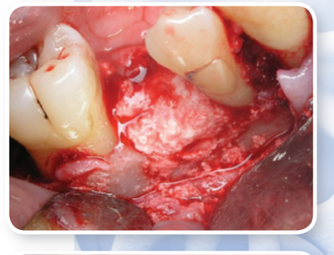
3D Bond™ is FDA cleared and CE approved and is packed and marketed in specially designed syringes of 1 cc and 0.5 cc volume.

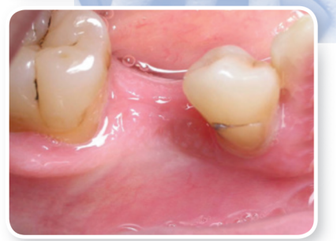
Clinical case 1: socket preservation case.

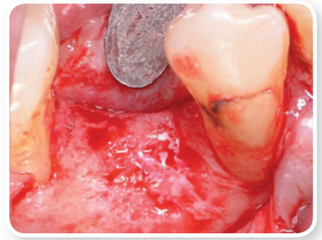
This case falls under the range of indications for **3D Bond™** on its own, without the need to combine it with other augmentation materials.











Three months after the augmentation, both the quality of the soft tissue and that of the resulting bone (that is the patient's own bone) is visible, leaving no residues or traces of the implanted material.