



# The Power of Attraction, Creating Bio-Regenerative Restorations.

Reduce restorative failure and sensitivity. Construct longer lasting restorations.



## Attract

Bioglass attracts and exchanges bioactive ions ( $\text{Ca}^{2+}$ ,  $\text{PO}_4^{3-}$ ,  $\text{F}^-$ ) with the oral environment.



## Protect

Continuous pH buffering helps prevent erosion & secondary decay.



## Heal

The bioconstructive nature of RE-GEN™ helps close marginal gaps, preserving marginal integrity.



Universal Adhesive · Flowable Composite Liner · Self Etch Adhesive · Dentin and Enamel Cleanser

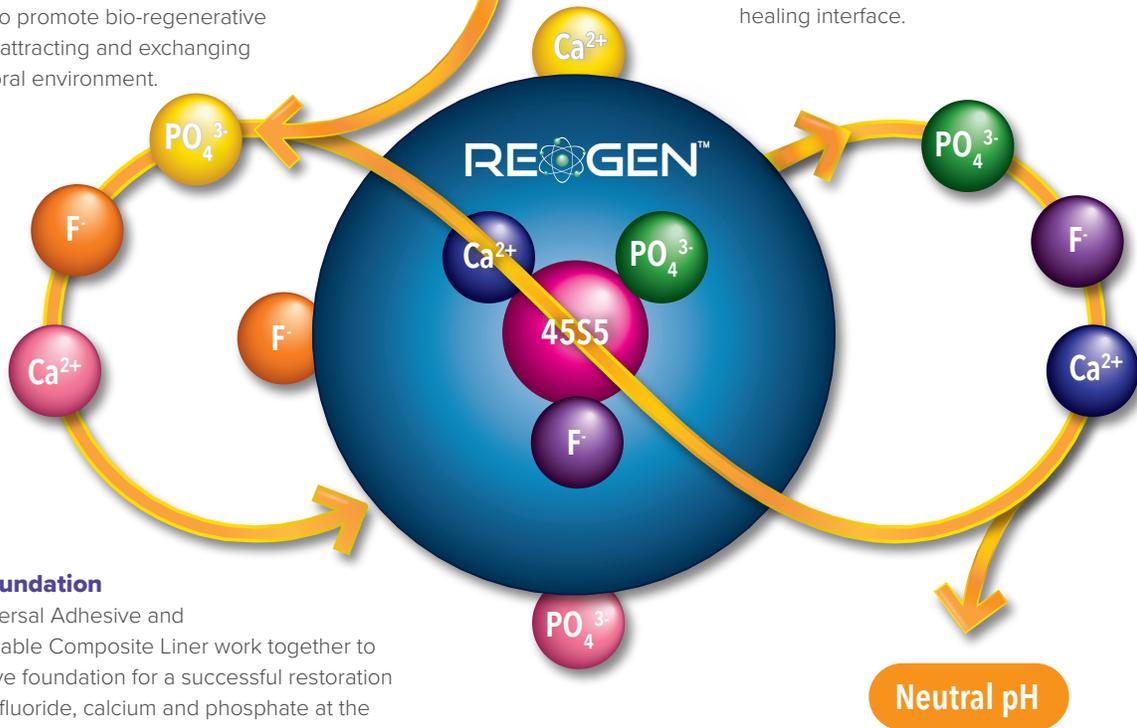
# Bio-Regenerative Exchange

## 45S5

RE-GEN™ is the first line of bioactive products to employ Bioglass 45S5 as an active ingredient. Backed by over 50 years of medical use, Bioglass is supported by countless clinical studies. Bioglass has been proven to promote bio-regenerative healing, while attracting and exchanging ions with the oral environment.

Acidic oral environment

**Introducing RE-GEN™ from Vista Apex,** developed with Dr. John Kanca. RE-GEN™ is a ground up approach to Bioactivity. In addition to releasing ions, RE-GEN™ attracts ions from the oral environment, creating a continuous buffering and healing interface.



### A Strong Foundation

RE-GEN™ Universal Adhesive and RE-GEN™ Flowable Composite Liner work together to form a bioactive foundation for a successful restoration by depositing fluoride, calcium and phosphate at the resin dentin interface.

### Buffer is Better

Chemical demineralization of teeth is caused by acidic attack through two primary means: consumption of acidic food or drink and bacteria present in the mouth. At a low pH, hydroxyapatite is easily solubilized, and the tooth is at risk of erosion and secondary decay. RE-GEN™ has the ability to resist acidic attack by neutralizing these agents.

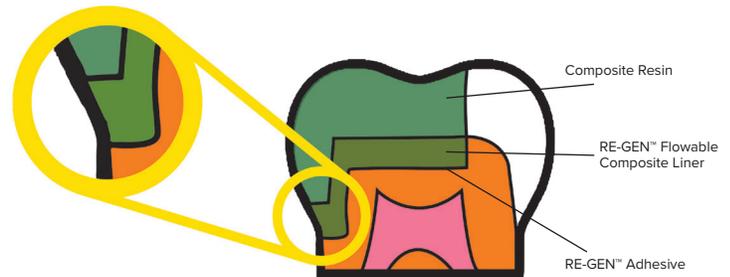
### See it in Action



## RE-GEN™ Technique

### Utilizing an Open Sandwich Technique:

- + For optimal results, use RE-GEN™ Universal Adhesive and RE-GEN™ Flowable Composite Liner utilizing an open technique.
- + Co-Cure the materials together as a replacement to dentin, also filling the cervical part of the box.
- + This results in exposure of 45S5 (BAG or Bio-Active Glass) to the oral environment, fueling RE-GEN™'s Bio-Regenerative and pH buffering.



### Open Sandwich Technique

# Supporting Research

by UAB School of Dentistry, Chan Te Huang DDS, MS and Dr. Nathaniel Lawson DMD, PhD

## Burgess Artificial Caries Model

### Testing Method:

Specimens are subjected to a demineralization, and remineralization process placed in acrylic blocks, and sectioned into 100 micron thick sections for examination under a polarized light microscope.



Box preparations are made on the buccal surface of human molar with margins in enamel and dentin. (10) Box preparations are filled with specified composite and adhesive.



Tooth specimens are embedded and sectioned.

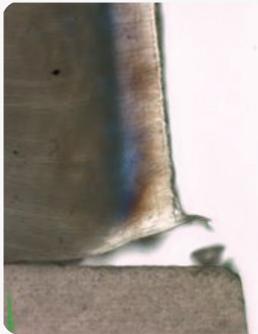


Each tooth stored in demineralized solution for 4 hours and remineralization solution for 20 hours, cycled daily for 30 days.

## Protection Study

Materials were compared by their ability to prevent erosion and eliminate wall lesions.

Standard adhesive & standard composite



Resulted in large wall lesions and erosion.

RE-GEN™ Universal Adhesive



When applied alone is shown effective in reducing wall lesions.

RE-GEN™ Flowable Composite Liner



When applied alone is shown to virtually eliminate wall lesions while protecting against erosion.

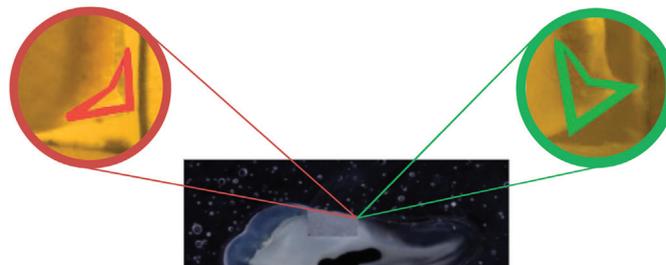
RE-GEN™ Universal Adhesive + Flowable Composite Liner



When the full RE-GEN™ system is applied, it is shown to eliminate wall lesions and provide powerful protection against erosion.

## Reference adhesive and composite

**Figure 1:** Non ion-releasing adhesive and composite lead to wall lesions and erosion, which may result in compromised marginal integrity, sensitivity, and secondary decay.



## RE-GEN™ Universal Adhesive + Flowable Composite Liner

**Figure 2:** No wall lesions, and a large zone of protection.

By utilizing the RE-GEN™ line of products and protocol, you'll help prevent secondary decay, enjoy longer lasting restorations and less post-operative sensitivity; giving your restorations the best chance of long-lasting success

## Are your materials protecting your restoration? Why this matters...

It is no longer simply the goal of dentistry to relieve pain, restore missing oral cavity structures, and provide aesthetic results.

Incorporating bio-regenerative materials that work in conjunction with the healing ability of the human body will help revitalize teeth to extend the life of your restorations.

"If delivered to the vulnerable site directly, bioactive materials like RE-GEN have the potential to lengthen the life of our composite restorations, and maintain the health of our patients. My patients enjoy hearing that I'm using a material that promotes self-healing."

- Dr. Michael Miyasaki



Universal Adhesive



Flowable Composite Liner



Self-Etch Adhesive

### Kit Options

90637

#### Universal Adhesive Kit

- 1 x 4mL bottle
- 50 x applicator brushes
- 1 x mixing well
- 2 x 1.2mL syringes of Etchant/Cleanser
- 8 x Spira-Flo™ brush tips

90638

#### Universal Adhesive Refill

- 1 x 4mL bottle

90647 (A1)

#### 4 Syringe Pack

90648 (A2)

- 4 x 4mL 1.5 gram syringes

90649 (A3)

- 25 x 20 gauge Flowthru® tips

90650 (A3.5)

90651 (A4)

90652 (B1)

90653 (Translucent)

90654 (White Opaque)

90657

#### 6 Syringe A2

- 6 x 1.5 gram syringes - A2 shade
- 25 x 20 gauge Flowthru® tips

90655

#### 6 Syringe Variety Pack

- 6 x 1.5 gram syringe (1 ea A1, A2, A4, B1, Translucent Shade, White Opaque Shade)
- 25 x 20 gauge Flowthru® dispensing tips

90656

#### 6 Syringe A-Shade Variety Pack

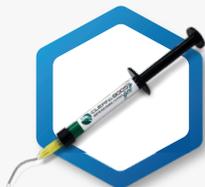
- 4 x 1.5 gram syringe (1 ea A1, A3, A3.5, A4)
- 2 x 1.5 gram syringe of A2 Shade
- 25 x 20 gauge Flowthru® dispensing tips

90632

#### Self-Etch Adhesive Kit

- 3 x 6 mL bottles (1 ea Step)
- 75 x applicator brushes
- 1 x mixing well

Also available in Pit & Fissure Sealant, view the full offering at [vistaapex.com/regen](http://vistaapex.com/regen)



Clean & Boost® Gel

**Clean & Boost® Dentin and Enamel Cleanser** is strong enough to increase bond strength, disinfect and etch the tooth surface, but gentle to surrounding tissues. Unlike phosphoric acid, Clean & Boost® will not cause gingival bleeding.

90058

#### Clean & Boost® Gel Single Syringe Kit

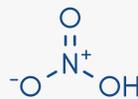
- 1 x 1.5mL Syringe
- 5 x Stat-Flo™ Brush tips

90417

#### Clean & Boost® Gel 5 Syringe Kit

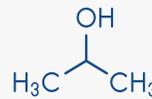
- 5 x 1.5mL Syringes
- 20 x Stat-Flo™ Brush tips

### What's the Secret?



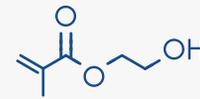
#### Nitric Acid

Enables etching ability & cauterizes minor bleeding



#### Isopropyl Alcohol

Antimicrobial agent  
cleanses prior to bonding.



#### HEMA

Desensitizer blocks  
dentin tubules.