

ABSTRACT: Prophylactic Sealant

AUTHORS:

Nilo Hernandez, DDS

Paul Cammuso, RPh., PD

Matthew Cammuso, Rph., Pharm.D.

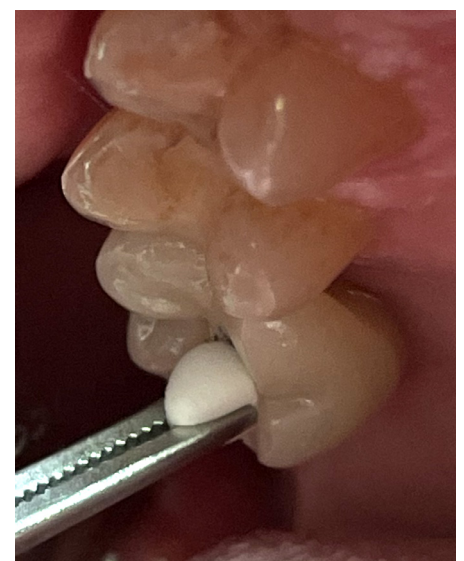
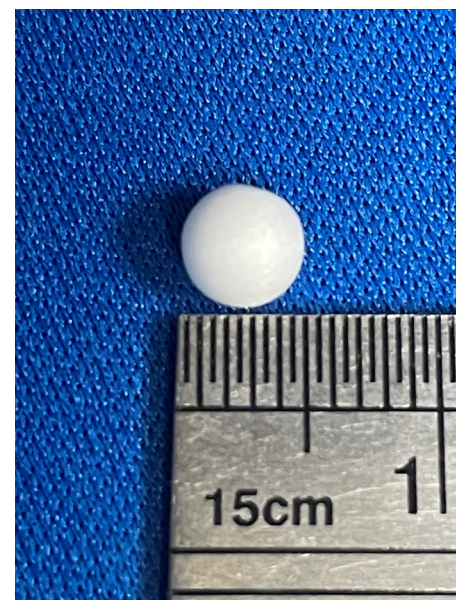
Problem – For years, dentists have used cotton pellets or pieces of Teflon tape to fill the space within the chambers of abutments and prosthetic screw channels. However, this seldom led to any hygienic success. The bacterial infiltration and the resulting odor that builds up in those areas has always presented a challenge and complaints from patients.

The Solution – A sealant that solves the problem. The product is simple to use and provides an effective antibacterial and antifungal solution. The pleasant-smelling sealant is provided via foam-soaked beads. The sphere is fast and easy to insert. It is effective in lowering the proliferation of the pathogens that harbor in abutment or prosthetic screw channels.

The Product – Create a proprietary flowable mixture of Clindamycin as an antibacterial, Nystatin as an anti-fungal, eucalyptus oil, blended with a silicone oil formula in a carrier of coconut oil. The 5mm beads are placed and used in lieu of the cotton or Teflon tape. The anti-pathogenic agents aid in the elimination of foul odors and reduction in the growth of pathogens.

Process – The design is simple, efficient, and fast. The beads are perfectly sized (5mm) foam spheres that are placed with the standard cotton plier. Once the sphere is inserted, a more definitive final restorative solution of composite can be bonded over the orifice.

What we found – After numerous applications, we found that the usual complaints of foul odors were nonexistent. No reports of having a bad taste in their mouths. This formulation was used on hundreds of abutment and screw channels over the course of one year. The study was done in a private clinical setting. The patient census covered all ethnicities, ages, and genders. During the follow-up evaluations, there were no reported complaints or side effects including irritations, allergic responses or the like. Additional follow



Conclusion – The product was created to provide dentists with an effective solution that would reduce or eliminate pathogens and odors in the abutment and prosthetic screw channels. The results were positive with no negative factors or reports.