

Tips from practicing dentists on using products to the best advantage

Product Category: Dental Lasers

Dentist: James DiMarino, DMD, MSEd
Practice location: Woodbury, NJ
Type of practice: General Dentistry
Years in practice: 12
System/product to be described: Two Striper ZTech Diamonds and Diamond Twist SCO - Intra-Oral Polishing Kit
Manufacturer: Premier Dental Products Company
Company Website: www.premusa.com/dental/newproducts.asp

Description of this product and its benefits to the dental patient:

Keeping up with the new dental technology and dental materials that enter the dental market each year is both an exciting and sometimes challenging undertaking. Finding the products with the perfect blend of advantages for our patients and added benefit to the dental professional is the mark of a true winner. These pearls may be tricky to find but, when discovered, bring a renewed energy and enthusiasm to our everyday dental practice.

The advent of the all-ceramic restoration has generated an increase in material selection. These materials have matured into aesthetic, strong restorations that are built to look good and perform. The strength of these materials allows us to utilize them in many ways but can also become a challenge when adjustments, access or removal are required. I find the Two Striper ZTech diamonds to be just such a pearl for use with this growing number of all-ceramic materials. The key is proper diamond selection and copious amounts of water spray



when using these resourceful diamonds. In 2013, REALITY awarded these diamonds four stars and the highest rated for all-ceramic cutting. They are especially effective on today's new generation of tougher ceramic materials such as IPS e.max, BruxZir, Lava Plus, Cercon, Zirlux FC, IPS Empress, Procera and Lava Ultimate. Perfect for use with Zirconia and lithium disilicate, these diamonds allow me to adjust, remove, or access all-ceramic restorations easily. The CR foundation gave them a Minimal Crack Rating of excellent in 2012 when creating endodontic access through different ceramic materials.

Step-by-step description of how this product is used with a patient:

I like to consolidate my dental armamentarium, so when I find a successful product that can be used for three procedures; I immediately bring it on board. I



can use the Two Striper ZTech diamonds to adjust all-ceramic restorations. The synthetic diamond crystals coupled with the PBS bonding and small particle size makes these diamonds perfect for occlusal adjustments of seated all-ceramic restorations. It cuts with a fine grit that allows me to easily polish the surface after adjusting back to a beautiful shine with Premier's Diamond Twist SCO - Intra-Oral Polishing Kit. Patients want comfortably fitting, smooth restorations. These premier products effortlessly help us make this happen.

While it is a lot more fun to adjust and polish a new all-ceramic restoration to fit comfortably in a patient's mouth, sometimes problems arise which requires another use for these versatile diamonds. The Two Striper ZTech diamonds can also be used to cut occlusal endodontic access through all-ceramics. One concern when cutting all-ceramic restorations is the possibility of creating micro or large cracks in the ceramic which may spread over time and cause failure of the restoration. As was previously mentioned, the CR foundation tested these diamonds and determined that they performed "excellent." Our first goal in creating endodontic access through an all-ceramic is to do everything we can to preserve the restoration. These diamonds give you an excellent chance of making that happen.

The usefulness of these

Figure 1: The innovative Two Striper TSZtech diamond is designed to cut safely through and adjust all-ceramic restorations including Zirconia and Lithium Disilicate.

Figure 2: The synthetic diamond, fine grit, and utilization of Diamond twist SCO allows dentists to provide smooth, polished occlusal adjustments.

Figure 3: Reducing the incidence and propagation of micro - cracks in all ceramics during endodontic access.

Figure 4: Proper diamond selection helps to enable dentists to cut off all-ceramic restorations efficiently.

diamonds is best discovered in the third procedure; removal of all-ceramic restorations. The increasing strength of these all-ceramic restorations and cements can make removal quite demanding. I want to know I have the best tool for the job. REALITY tested Zirconia cutting diamonds and stated that the Two Striper ZTech diamonds were the "fastest through Zirconia and smooth cutting" while giving them four stars. This is a good endorsement, but nothing compares to using them yourself.

Whether adjusting the occlusion of an all-ceramic in the mouth, creating endodontic access through, or removing an all-ceramic restoration, the Two Striper ZTech diamonds have been designed to be efficient and proven through independent testing to be an effective solution for each procedure.