Your New Cement: CemEZ™ Lives Up to its Name

If I told you there was a cement compatible with your favorite adhesive system; dual cure so it bonds with or without light; yet highly color stable over time; and also cleans up incredibly easy, would you believe it exists? It does! And it’s called Cem EZ™. This new cement from Zest Dental Solutions (Danville Materials) is based on their innovative, proprietary IntelliTek™ Technology and can be used with crowns, inlays, onlays, and posts.

BEFORE THE RESTORATION
Let me run you through a case so you can see how Zest (Danville Materials) has developed a nice system for bonding any type of indirect restoration: composite, porcelain, metal, or zirconia. This case involved tooth #3 in need of an e.max® crown (Figure 1) due to extensive amalgam restorations that were leaking, recurrent decay, and multiple fracture lines running through the tooth.

PREPARING THE RESTORATION
The internal surface of the CEREC e.max crown was air abraded with 27 micron aluminum oxide particles using a MicroEtcher™ (Zest Dental Solutions, Danville Materials) at no more than 40 psi. Then the internal of the restoration was etched with 9% hydrofluoric acid for 60 seconds and rinsed thoroughly with water. After drying, the internal surface was coated with Danville’s S-Bond™ which is a stable, prehydrolyzed silane (Figure 2) for 60 seconds and dried. Silane is the coupling agent which helps the e.max ceramic material bond to the resin cement.

ETCHING AND BONDING THE RESTORATION
The tooth was isolated during the tooth preparation and cementation with Dry Shield, which isolated the tooth from the cheeks, tongue, and contamination. The tooth was prepared with the selective etch approach. The remaining enamel was etched with Zest (Danville Materials) Sure Etch™, a 37% phosphoric acid gel, for 15 seconds trying to avoid getting any significant amounts on the deeper dentin, and rinsed with copious water. The excess water was plotted off the tooth with a clean applicator brush, leaving the dentin moist.

With its Intellitek Technology, Cem EZ is compatible with a wide variety of bonding agents. In this case, Zest (Danville Materials) Prelude One™ Universal Adhesive was brushed onto the dentinal surface with a gentle brushing action for 20 seconds (Figure 3); blown with air for 10 seconds to thin the adhesive and evaporate the volatile ethanol solvent; and then the preparation was light cured for 10 seconds.

CURING THE RESTORATION
After seating, the restoration was tack cured with a curing light on the buccal for 5 seconds so the restoration would not move (Figure 5).

CLEANING THE RESTORATION
In most cases, floss would be run through the contacts at this point, but in this example the excess cement extruded from all sides and no flossing was done until all sides had been tacked with the light for 5 seconds. The excess gelled cement was easily removed with a carving instrument and just peeled away, making clean-up very quick (Figure 6).

THE FINAL RESTORATION
The occlusion was checked and the case was complete (Figure 7). The IntelliTek™ Technology utilized in Cem EZ is the same great innovation first seen in the Bulk EZ™ dual-cure flowable bulk fill composite. I have used this technology and product for a couple of years with great success, and trust it immensely. Once again, Zest Dental Solutions (Danville Materials) and Intellitek have delivered a great product that is easy to use and provides great performance at an even greater value. This is indirect cementation made EZ!