

Clinical article for dental newsletter

AFTER EDITING by Marya Danihel

Clinical Application of One-Up Bond F & Palfique Estelite

For almost a year I have been using One-Up Bond F and Palfique Estelite in resin procedures. These two products together produce impressive results not possible with other systems: I have been able to significantly reduce bonding, resin application, and finishing time while reducing re-dos due to application errors. The faster and more straightforward the procedure, the more successful the results are.

Bonding

One-Up Bond F is a self-etching material that does not require etching and rinsing before application. Moreover, One-Up Bond F releases fluoride slowly over time to the underlying tooth structure, thereby increasing the tooth's resistance to decay. However, I like to quickly bead-blast the area or apply acid etch for five seconds and then rinse. Although these steps go beyond the recommendations, they assure me that I am starting off with a clean area with maximum possible bonding surface area.

After isolating the cavity equal amounts of One-Up Bond F are dispensed from the two bottles into the mixing well, whereupon the mixture turns pink. The mixed liquid is applied to cavity preparation with an applicator brush and cured after 20 seconds. When the pink liquid turns clear, the cure is complete (this photosensitive characteristic is very helpful in eliminating under-curing). Applying the bond to the tooth structure takes a little over a minute.

Resin application

Palfique Estelite Composite Resin is applied with a plastic instrument, which is lubricated with an alcohol wipe before touching the material. Palfique Estelite is carried to the preparation and shaped. To keep the resin from sticking to the plastic instrument and to prevent disturbing the shaped material, the instrument requires frequent lubrication. Once the resin is shaped in place as desired, it is quickly light-cured with two or three 20-second cycles.

Palfique Estelite is available in a wide variety of shades. Shade matching is excellent and further enhanced by the material's characteristic ability to blend with surrounding tooth structure. Some shades come with built-in opaquers, which are very useful in masking yellow-stained tooth structure often found in the older patient's lower worn-out incisal edges.

Finishing

Palfique Estelite is uniquely filled with spherical particles, making it possible to achieve a finished product in a short amount of time with a minimal amount of paraphernalia. All that is required are a fine or extra-fine tapered bullet-nosed diamond burr, a white prophy cup, and wet and dry pumice.

Initial gross finishing is performed with friction-grip fine or extra-fine diamond. This is followed by polishing with wet pumice in a latch-type white prophy cup (wet pumice reduces heat build-up during polishing). These two steps alone will yield superior finished restorations with very little effort and time. To finish restorations to a glass-like luster, dry pumice in a prophy cup may be used at low revolutions as a final step.

In conclusion, One-Up Bond F and Palfique Estelite combined have allowed me to become a more efficient and skilful operator, able to deliver superior esthetic results in resin procedures in a fraction of the time it used to take.