

eFiber Single Tooth Replacement

A BONDABLE, ESTHETIC, NON-INVASIVE TEMPORARY OR PROVISIONAL RESTORATION FOR A SINGLE TOOTH IMPLANT UTILIZING A DENTURE TOOTH or CLINICAL CROWN

The techniques and materials here have been tested and proven to work. Substitution of materials may lead to failure.

The Dentist provides the Laboratory with impressions/articulated casts and a bite, as well as the shade for the restoration.

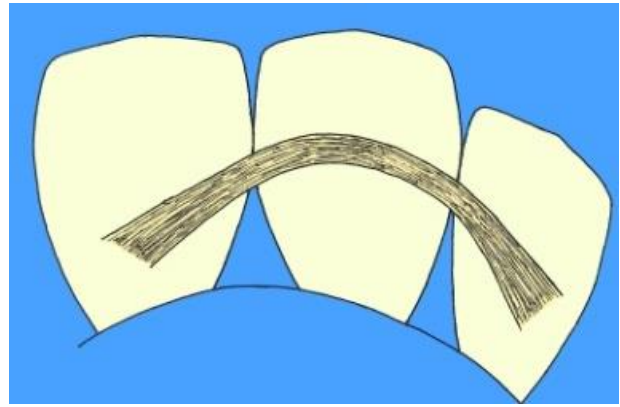
Laboratory Technique



Start with articulated casts to check bite for both available space and optimum positioning of the retentive wings on the adjacent abutment teeth. If the tooth to be replaced is still on the model, carefully remove the tooth from the model-- the same as when you prepare for an immediate denture



Select the correct shade and mold denture tooth. The denture tooth may be acrylic, composite or porcelain. Grind and finish the denture tooth to fit. Check fit and occlusion.



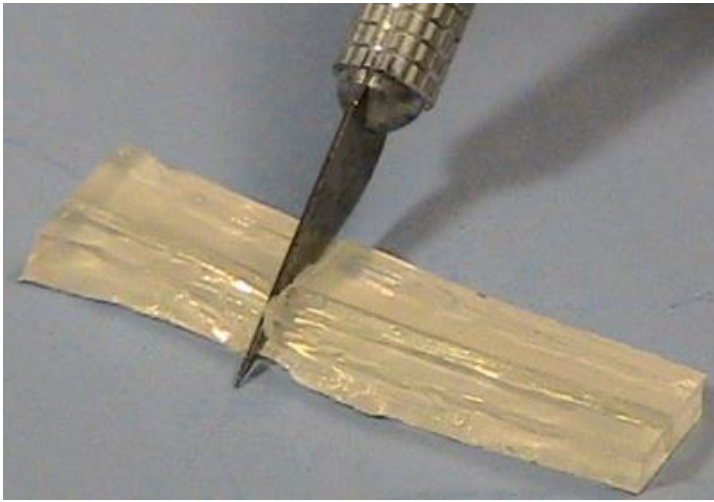
Place the tooth on the model, and draw the position of the groove prior to cutting the preparation. A groove is cut in the denture tooth to receive the bondable eFiber. If you find that the most available space is near the cingulum of the abutment teeth, you may wish to cut the groove as an arc



Position the prepared denture tooth on the cast and make a putty matrix to hold the tooth in position on the cast. Wax may be used to hold the tooth in position during this procedure



Paint a small amount of adhesive in the groove of the denture tooth, and measure the length of the bondable eFiber that will be needed. Dental floss or wax rope both work well.



.Use sharp scissors or a scalpel to cut the proper length of eFiber. Protect the unused fiber by repackaging inside the protective foil.

Remove the cut eFiber from the clear silicone package, protecting from light or heat. Place the eFiber in the groove of the tooth. It is easy to bend the e-Fiber to the correct position

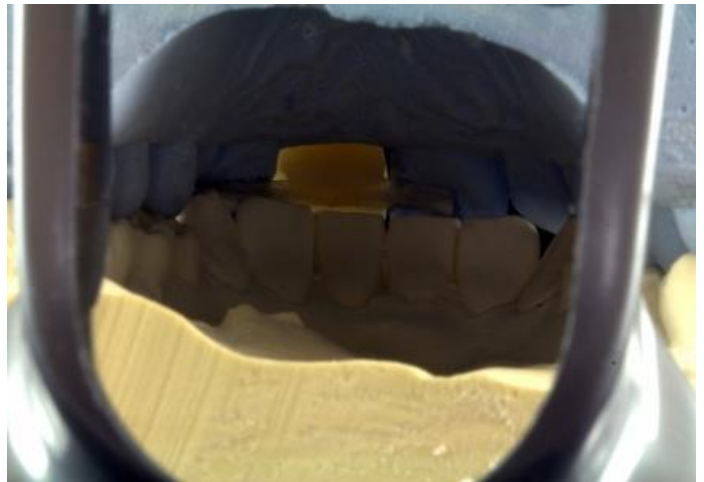
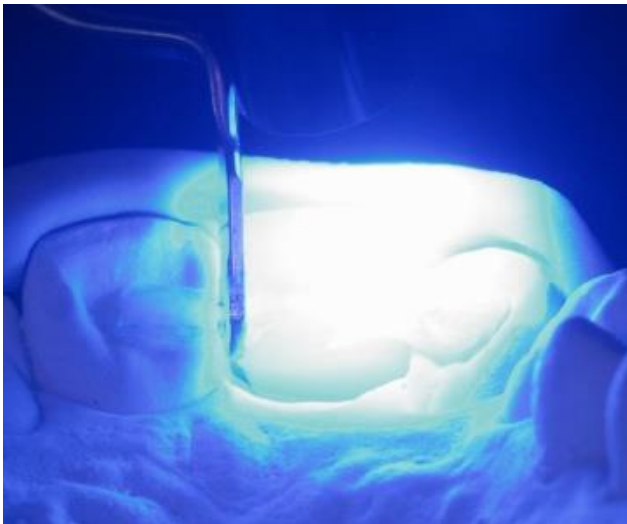


A small amount of pressure on the “wing” areas of the eFiber will widen the eFiber and provide a greater surface area for bonding to the adjacent teeth.

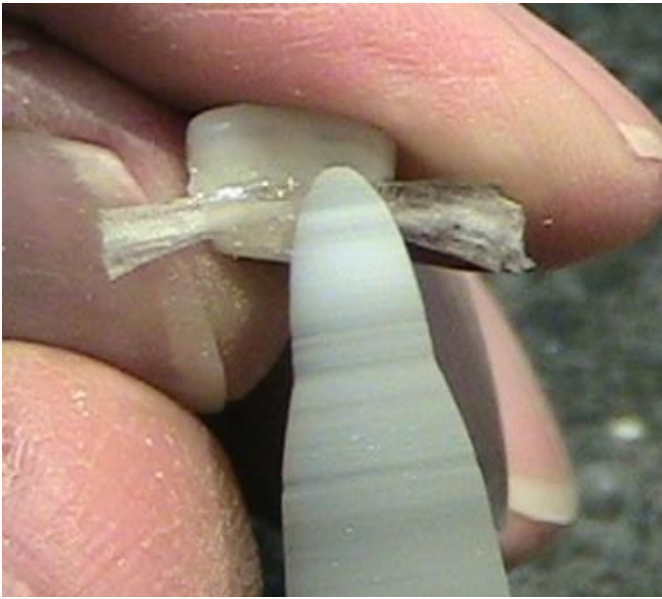
To eliminate any possibility of the eFiber moving during light curing, it is recommended that **2 people complete the next step**--One to hold the eFiber in proper position with a hand instrument, and a second to cure the fiber with a hand held light. Light cure the fiber.



Remove the cured eFiber from the tooth. Place a small amount of flowable composite in the groove in the tooth. Position the cured eFiber in the flowable composite and use an instrument to secure the eFiber fully within the groove of the denture tooth. Place additional flowable composite over the fiber.



Hold the eFiber in position with an instrument, and fully cure with a hand held light. It is often easier to have a second person assist in holding the material in place when light curing. Again check fit and occlusion.



Adjust the restoration with silicone cutter/polishers and polish using the e-Fiber polish and small goat hair brush. For best results, use a small amount of polish and run the handpiece at a slow speed with very little pressure.

Clinical Technique

After acid etching, clean the area to be bonded using a pumice and water mix. Rinse with water and air dry. Use the composite bonding technique according to the bonding agent manufacturer's instructions. Apply bonding agent to the entire tooth area to be bonded. Light cure the bonding agent as described by the manufacturer. Apply a thin layer of flowable composite to the bonded teeth surfaces. Do not light cure the composite yet.

Re-activate the fiber wings with unfilled resin or monomer.

Place the pontic in place, with the fiber wings on the uncured flowable composite. Use the clear silicone tool to press and hold the fiber wings in place. Use the eFiber tool to block out the pontic area, and light cure the fiber wing for 5-10 seconds. Use the same technique to light cure one tooth/pontic area at a time.

Place flowable composite on the bonded fiber wings as well as the pontic area, and light cure one tooth/pontic area at a time for 40 seconds. Polish and finish the restoration as needed.

