

Clinical Case 2: Emergency Restoration of Fractured Bicuspid

Clinical Case by Dr. Christopher D. Ramsey, Jupiter, Florida



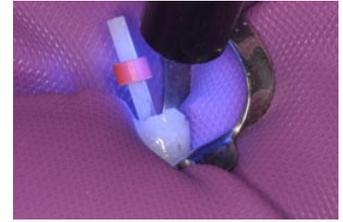
Initial situation: Root canal on fractured tooth No. 21.



Drill used to widen and shape the canal.



Injecting RelyX™ Unicem Self-Adhesive Universal Resin Cement into canal.



Corresponding RelyX™ Fiber Post placed into canal and light cure of cement.



Crown build-up completed with direct restorative material.



Protemp™ Crown Temporization Material placed onto the preparation and adapted.



Tack cure of buccal surface.



Crown lined with Filtek™ Supreme Plus Flowable Restorative.



Occlusion checked with crown in place.



Placement of Protemp™ Crown Temporization Material with temporary cement.

Initial situation: Root canal on fractured tooth No. 21. Patient in poor dental health required emergency restoration. Provided post, core build-up and Protemp Crown while permanent restoration was fabricated.

Treatment plan: Patient was anesthetized and a non-latex rubber dam was placed. Space for 1.6mm-diameter RelyX™ Fiber Post was created using corresponding drill and the post was inserted into canal to check the fit. RelyX™ Unicem Self-Adhesive Universal Resin Cement was dispensed into canal using the RelyX™ Unicem Aplicap™ Elongation Tip. RelyX fiber post was placed in the canal and light cured for 40 seconds. Direct restorative material was used to create the crown build-up, followed by a 20-second light cure and trimming of the post. After measuring the mesial-distal width of the preparation, the proper size Protemp Crown was removed from the package, trimmed and placed onto the prep. The buccal and lingual margins and proximal contacts were adapted and, as the patient bit down, occlusal fit was established. Buccal, lingual and occlusal surfaces were each tack cured for 2-3 seconds and the crown was removed. The crown was lined with Filtek™ Supreme Plus Flowable Restorative and tack cured. Protemp Crown was light cured for 60 seconds and re-seated onto the prep. The margins were finished to obtain a close fit along the gingival margin and occlusal fit re-checked. An impression was taken for the permanent crown and Protemp Crown was cemented using RelyX™ Temp NE Temporary Cement.

