

Simple steps for achieving lifelike restorations.

A case study by Dr. Daniel J. Poticny, DDS featuring 3M™ Lava™ Esthetic Fluorescent Full-Contour Zirconia Disc and 3M™ RelyX™ Unicem 2 Self-Adhesive Resin Cement.

Restorations fabricated by Thayer Dental Laboratory



Pretreatment and restoration selection



Fig. 1: Patient requested better-looking shape and appearance on 8 and 9.



Fig. 2: Determine shade.



Fig. 3: Prepared teeth with chamfer margin and supragingival margin.



Fig. 4: **IMPORTANT:** communicate preparation shade.

Temporization and preparation of restorations



Fig. 5: Temporized teeth after sending digital scan to the lab.



Fig. 6: Finished restorations on digitally printed model.

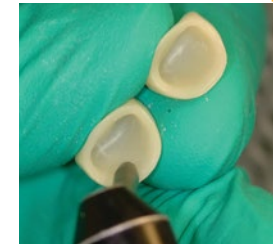


Fig. 7: After try in, sandblast the inside of the crown with 30 or 50 µm alumina with a pressure of 2 bar to achieve a matte surface appearance. If the lab sandblasted the crowns for you, wipe with a 5% sodium hypochlorite solution, rinse with water and air dry.

Cementation of restorations

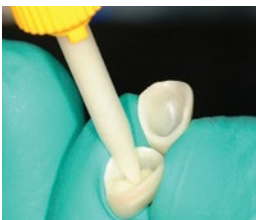


Fig. 8: Fill crown about half full with cement.



Fig. 9: Seat crowns but do not wipe and smear the cement. Tack cure cement for ~ 2 s and cement will be easy to remove. Then fully light cure for 20s on each surface.



Fig. 10: Restorations immediately after cementation and clean-up.



Fig. 11: Restorations one week after cementation.

Post-op results



Fig. 12: Radiographs indicating no residual cement and tight fitting restorations with no gaps at the margins.



Fig. 13: Lava Esthetic restorations in transmitted light showing the excellent translucency.



Fig. 14: Lateral view after one week.

Before using the products described, please refer to the instructions for use provided with the product packages.

The featured 3M product may be known with an alternative name in different regions.

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