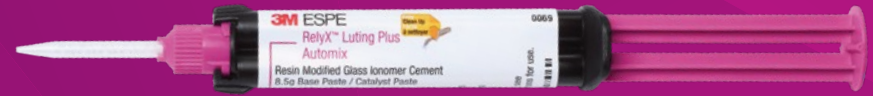


Reliable PFM crown cementation simplified with easy tack cure clean-up

A case study by Dr. Robert Margeas, DDS featuring 3M™ RelyX™ Luting Plus Resin Modified Glass Ionomer Cement



The patient presented to the office with pain on biting of his upper left first molar (tooth #14). The tooth had a large composite restoration and a crack going from mesial to distal. The old restoration was removed and a new build up was placed. The tooth was prepared for a full coverage PFM restoration. When doing either PFM or Zirconia restorations, I always use resin modified glass ionomer cement due to the ease of use, the retention and the easy clean up.



Fig. 1: The tooth had a large composite restoration and a crack going from mesial to distal.



Fig. 2: Prior to making the final impression a small retraction cord was placed.



Fig. 3: Then, retraction paste was injected into the sulcus to deflect the tissue and stop any bleeding (3M™ Retraction Capsule).



Fig. 4: 3M™ Imprint™ 4 Light Body VPS Impression Material was then applied to the preparation and 3M™ Imprint™ 4 Heavy Body VPS Impression Material was injected into a quadrant tray and placed into the patient's mouth.



Fig. 5: The final impression.



Fig. 6: The tooth was then cleaned.



Fig. 7: Following cleaning, a provisional was made out of 3M™ Protemp™ Plus Temporization Material and was cemented with temporary cement. The patient was dismissed for two weeks.



Fig. 8: Once the crown was made by the dental lab, the provisional was removed, the tooth mechanically cleaned, and the PFM was tried in for marginal integrity and contacts.

Reliable PFM crown cementation simplified with easy tack cure clean-up cont.



Fig. 9: 3M™ RelyX™ Luting Plus Resin Modified Glass Ionomer Cement was injected into the crown utilizing the automix syringe delivery.



Fig. 10: The crown was firmly placed over the preparation. The margins were then cured for five seconds utilizing the 3M™ Elipar™ DeepCure-S LED Curing Light.



Fig. 11: The cement around the margins was easily peeled away.



Fig. 12: The patient was instructed to bite on a cotton roll for five minutes. The final restoration.

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

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