

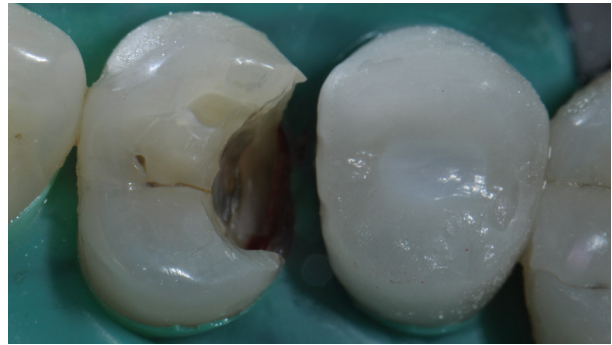
Gaenial Universal Injectable

Clinical Case – Dr Clarence Tam

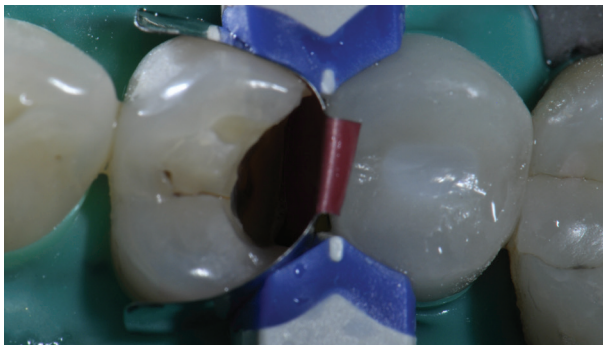
Gaenial Universal Injectable takes you to the new future of composite placement. Enjoy the confidence of ingenious technology that delivers the highest levels of strength, aesthetics, wear resistance and polish retention.



1. Pre-operative situation on a healthy 54 year old female's tooth dated 24DO restoration exhibiting extremely poor marginal integrity, palatal overhang and presence of recurrent caries.



2. Removal of old restoration and excavation of caries. Very deep resultant preparation both cervically and pulpally. No vital pulp liner was used due to the ability of G-Premio Bond to chemically bond to both hydroxyapatite and the collagen fibrils of deep dentin, thereby forming Superdentin, an acid-and-base resistant layer formed with the action of 10-MDP.



3. Sectional matrix assembly (close-up view) showing good adaptation of proximobuccal and proximopalatal cavosurface margins and shape for ideal reproduction of line angles.



4. Zoomed out view of Sectional Matrix assembly (Garrison Compositight 3D Fusion)



5. View after incremental cervical horizontal layers: 3 consecutive 0.25mm thick layers before injecting 1mm horizontal layers extending coronally to reconstruct the marginal ridge. Material used: G-Aenial Injectable A3. This injectable composite features ultra-low shrinkage stress in the range of 1.0MPa, thereby ensuring maximal marginal integrity with conservative layer thickness.



6. Removal of matrix assembly and use of G-Aenial Injectable to build buccal lobe before staining using RBM (Essentia Modifier Kit). Palatal lobe completed last using G-Aenial Injectable A3. Seamless esthetic and marginal integration using a single shade injectable composite solution. The marriage of ultra-fine barium filler and Full Silane-Coating (FSC) technology produce an injectable product that is stronger in flexural strength (the Achilles heel of composite resin relative to porcelain and zirconia) than most packable composites.