

# Cementation

## Case Study

# Partners in Minimally-Invasive Prosthodontic Predictability: IPS e.max® MT and Variolink Esthetic LC

A 32 year old Caucasian male presented to my service mid-course through his fixed orthodontic treatment requesting options to increase incisal show of his upper anterior teeth along with simultaneous proportion correction. The orthodontist was in the process of correcting root torque but stated that he could not correct the root proximity of 12 relative to 11 due to a root axis deviation/malformation in the tooth. A number of requested alterations were made to finalise the axial position, and the patient referred back to the orthodontist to finalise his treatment.

On preparation day, a lingual putty was fabricated from the diagnostic wax-up to guide mesiodistal preparations on teeth targeted for dimensional change. Provisionals were placed on the teeth as in the trial smile and depth cuts placed at 0.3mm through the material to guide reduction requirements. A 72 hour provisional check was completed to ensure harmony and comfort within the envelope of function and to test the projected new tooth length, aesthetically. IPS e.max MT was chosen for the final restorations, as it features requirements that respect both nature and the residual tooth structure. Firstly, it exhibits an excellent e-modulus of approximately 94GPa (enamel = 70GPa) and bondable lithium disilicate base, which provides both natural luminescence, translucency and strength, critical for this incisal extension with functional incisal contact. Secondly, the tooth reduction requirements of IPS e-max are minimal, with margins being able to be pressed to 0.3mm. This is critical in the cervical area of the tooth, where the enamel thickness on average is 0.3-0.5mm. Enamel margins are the key factor to veneer longevity in the aesthetic zone.

Following veneer try-in, the intaglio surface was prepared with 5% hydrofluoric acid and silane coupling agent applied (Monobond Plus). The teeth were total etched, as virtually all areas were enamel, and AdheSE Universal applied and air thinned. Variolink Esthetic LC Light was chosen due to its ability to slightly modify value with the patient desiring "extra" bright restorations.

***“IPS e.max is a virtually fail-safe go-to combination for stress-free aesthetics in the anterior zone when paired with the light-cure only mode of Variolink Esthetic LC.”***

The consistency of the cement is perfect for veneer seating, but in truth, one of the biggest reasons why I love using it is because of its tip. It's small, it prevents bubbles and allows for accurate cement loading.

72 hours after seating, there is still healing soft tissue, but an extremely vitescent and youthful result.



Dr Clarence Tam, Auckland



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