

Routine Amalgam Replacement Case Study – Matthew Holyoak

Routine amalgam replacement LL5DO; box is not wide so ideal to use a circumferential matrix- Pro-Matrix or Pro-Matrix Curve is my preferred matrix.

Rubber dam isolation achieved, enhanced with Voco block out gel and Pro Matrix Curve in place with a Garrison fusion wedge distally to ensure the box is sealed; make sure it is burnished to achieve a tight anatomical contact.

Bonding: On this occasion I used a selective enamel approach with 40% phosphoric acid on enamel only for 30s; followed by ClearFill Universal Bond Quick, a Universal (multi-mode) dentine bonding agent (Kuraray), air dry, so no pooling at margins and cure 10 secs- surfaces should appear “shiny”.

Distal wall built up and cured, to appropriate height: Kulzer Venus Pearl A3.5

Small 0.5mm layer of flowable composite in deepest aspect: stress breaker, ensures no voids on floor of cavity

Incremental build up in ~ 3 further layers using VP to restore anatomy

Band removal with minimal finishing, final verification of occlusion and ensure a tight contact so no prospect that food will pack. Next restore failing amalgam LL6



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