

Full-mouth rehabilitation using injection molding technique with 3M™ Filtek™ Supreme Flowable Restorative



Clinical case

Dr. Ana Roig

About the case

A male patient in his mid-40s showing severe signs of erosive wear. Full-mouth rehabilitation was indicated to stop lesions progression and get the original vertical dimension back. Orthodontic therapy was planned as first step for better alignment before the restorative execution.

Challenge

The main challenge lies in restoring function and VDO in a severely eroded dentition while balancing adhesion, occlusion, and longevity using a minimally invasive and economical approach.

Outcome

Composite injection molding is established as long-term interim treatment and offers significant advantages, but success depends on precise planning, etiological control, and meticulous execution.

3M™ Filtek™ Supreme Flowable Restorative has appropriate optical properties for life-like results, offers excellent polishability, and wear resistance.

Featured products:

3M™ Scotchbond™ Universal Plus Adhesive

3M™ Filtek™ Supreme Flowable Restorative, B1 shade



About Dr. Ana Roig

Ana Roig graduated in 2005 from the University of Valencia (Spain) with a Degree in Dental Medicine. She specialized in Prosthodontics and Implantology (2005–2006) and in Endodontics (2006–2008). She got her PhD in fixed prostheses on implants and her third specialization in Implantology and Biomaterials at the University of Murcia (2009–2011). She also specialized in Orthodontics and Orthopedics (2019–2021) to be able to customize patient's treatments according to their needs.

Dr. Roig combines her private clinical practice in Guadassuar (Valencia) with an academic part-time role at the University of Valencia, balancing teaching and research duties as an active member of several research groups focused on dental materials.

Case overview

Refer to instructions for use (IFU) for complete product information.



1 Pre-op situation after aligners therapy. Multiple erosive lesions are visible.



2 Old composite removal and enamel conditioning with 29 µm alumina.



3 Enamel etching for 15 seconds on teeth to be restored in the first round.



4 Application of 3M™ Scotchbond™ Universal Plus Adhesive after protecting non-injected teeth with PTFE tape.



5 First silicone matrix in place, ready to inject teeth 14, 12, 21, and 23.



6 Injection of 3M™ Filtek™ Supreme Flowable Restorative B1 shade.



7 First four teeth restored after excess removal.



8 Situation after the second-round injection following the same procedure.



9 Etching enamel and adhesive application on lower arch teeth.



10 Same procedure of injection molding on lower arch.



11 3M™ Filtek™ Supreme Flowable Restorative injected. Excess removal outside the matrix is recommended before light-curing.



12 Immediate post-op situation after finishing and polishing, including posterior teeth.



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