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Post-orthodontic smile make-over with Solventum™ Filtek™ Matrix



Clinical case | Dr. Lois Duerst

About the case

Patient presented with anterior wear, tight overjet and excessive overbite. The teeth needed to be brought back to their proper position before restorative treatment.

Challenge

After orthodontics with Clarity™ Aligners, the patient requested conservative treatment with minimal healthy tooth structure removal.

Outcome

Filtek Matrix delivered ideal contours and tooth shape and reduced the time to achieve the results. The patient was thrilled with his new smile!







About Dr. Lois Duerst

Lois Duerst was Staff Dentist for 3M Oral Care and Solventum Dental Solutions prior to retiring in 2025. She is a graduate of the University of Minnesota School of Dentistry where she also completed a two-year post doctorate residency. She maintained a private practice, with an emphasis on esthetic dentistry, in the St. Paul, MN area prior to joining 3M. Dr. Duerst is an advocate of lifelong learning, receiving her Fellowship and Mastership in the Academy of General Dentistry, and continues to be active in her local Spear Study Club.

Case overview

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



Initial situation prior to orthodontic treatment.



After orthodontic treatment with Clarity™ Aligners, before Filtek Matrix treatment.



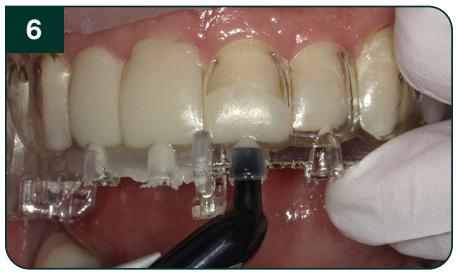
Anterior matrix was trial fitted to verify fit.



Teeth were cleaned and etched, and 3M™ Scotchbond™ Universal Plus Adhesive was applied, air-dried, and light cured.



Matrix was placed on the teeth, then 3M™ Filtek™ Supreme Flowable (A1) was placed in the incisal ports and left uncured.



Warmed 3M™ Filtek™ Supreme Ultra Universal Restorative (A1B) was injected, filling the entire matrix cavity.



Excess composite was removed along the gingival margin, both facially and lingually.



Composite was light cured for 20 seconds on both the facial and lingual surfaces.



The matrix was taken off and excess composite removed. A medium Sof-Lex™ Disc finished the facial surface, removing any inhibition layer.



Contacts were separated using proximal saws and strips and smoothed with a 3M™ Sof-Lex™ Finishing and Contouring Strip.



Final polishing was performed.



Outcome for the maxillary arch treatment.

Case overview

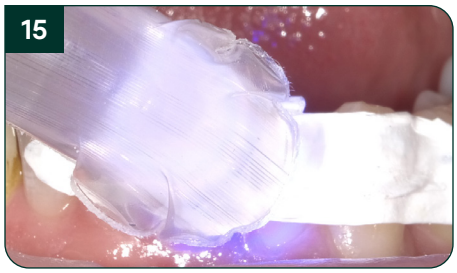
Refer to instructions for use (IFU) for complete product information.



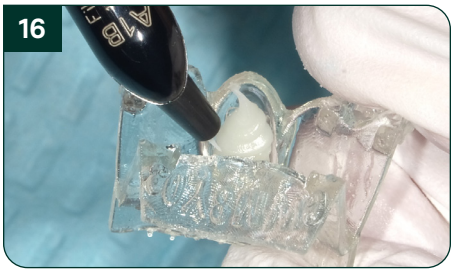
Initial situation for the lower arch treatment.



Press matrix was trial fitted to verify fit.



Tooth was cleaned and etched, and 3M™ Scotchbond™ Universal Plus Adhesive was applied, air-dried, and light cured.



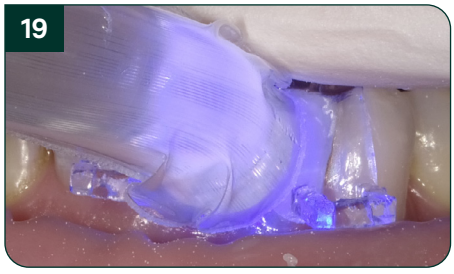
3M™ Filtek™ Supreme Ultra Universal Restorative (A1B) was placed in the press matrix.



Press matrix was seated on the tooth.



Excess composite was removed from the facial gingival margin and from the vent slot on the lingual side.



Composite was light cured for 20 seconds on both the facial and lingual surfaces.



Press matrix was removed using pry handles on adjacent teeth.



Excess composite removed. A medium Sof-Lex™ Disc finished the facial surface, removing any inhibition layer.



Contacts were separated using proximal saws and strips and smoothed with a 3M™ Sof-Lex™ Finishing and Contouring Strip.



Final polishing was performed.



Final results.

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