

Clinical Case

Fusion™ Anterior Matrix System

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Patient was referred to dental office to replace composite fillings with secondary caries in esthetic zone. It was decided to start the treatment with tooth 12 because of deepest caries lesion. After placing dental dam system, composite and caries were removed. Fusion™ Anterior Matrix system by Garrison was used to rebuild contact point with adjacent tooth. Metal band was individually shaped for perfect position of contact point, and fitting interdental wedge was used. Enamel was etched with phosphoric acid and OPTIbond XTR Universal bonding system was applied. OPTIshade composite was used, that allows to match the colour of the filling and tooth tissue. Matrix system allowed for ideal shaping of the filling, so it pleased the patient as well. Other filling will be replaced during next visits.



Fig 1. Secondary caries around composite filling in tooth 12



Fig 2. Prepared cavity after dental dam placement



Fig 3. Preliminary adjustment of Anterior Matrix System



Fig 4. Subgingival matrix placement



Fig 5. Smallest diameter system wedge was used in this case



Fig 6. Wedge was pressed hard between teeth

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Fig 7. Shaping of steel Anterior Matrix

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Fig 8. Reconstruction of contact point by matrix shape

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Fig 9. Enamel acid etching with phosphoric acid

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Fig 10. Etched and dry enamel surface

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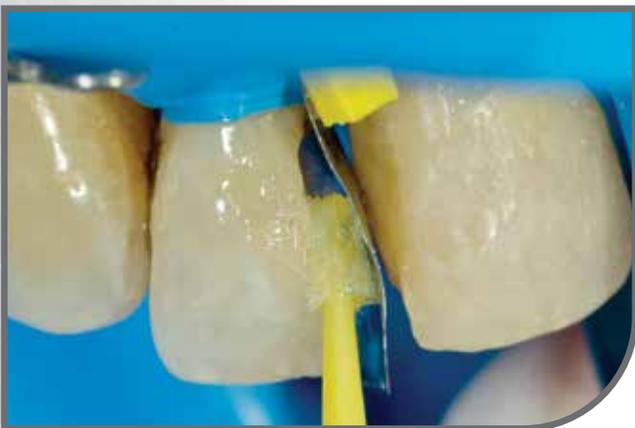


Fig 11. OPTIbond XTR Universal primer application

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Fig 12. OPTIbond XTR Universal adhesive application

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Fig 13. First layer of composite material OPTishade M

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Fig 14. Second layer of composite material that adjusts to tooth colour

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Fig 15. Finished filling after polishing

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Fig 16. Excellent gingival fitting of a filling is visible

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Fig 17. Contact point is rebuilt at perfect position

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Fig 18. Time to continue the treatment by replacing other fillings

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