

K A R M A .
dental philosophy

CLINICAL CASE

 solventum



3M Health Care
is now Solventum

Restore form and function in extensive
root caries with Solventum™ Filtek™
Easy Match Flowable Restorative



Clinical case

Dr Chris O'Connor

About the case

38-year-old male. Previous worked as a chef with high incidence of energy drink consumption. Extensive root caries noted. Patient referred for comprehensive treatment, to improve aesthetics and to try to salvage as many teeth as possible.

Challenge

Restore form and function, provide an easy to clean surface and reduce risk factors. Root caries is especially difficult to isolate and treat as it tends to spread around the circumference of the teeth and is often more extensive than initially presumed.

Outcome

This entire case has been completed so far with Filtek™ Easy Match shade 'bright' in paste and flowable preparations. The matrixing has been challenging in places but the versatility and simplicity of the composite used has certainly helped produce the result. I am most proud of the aesthetics and polish produced with a single shade restorative approach.



About Dr Chris O'Connor

Chris graduated from Newcastle University in 2008. He spent 6 years as clinical academic at the same University (2014–2020). Currently he is associate dentist in Newcastle Upon Tyne with special focus on restorative dentistry. He is managing director of Incidental Ltd and CEO of Incidental Training, where he runs hands on workshops in UK.

Case overview

Pre-op situation

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



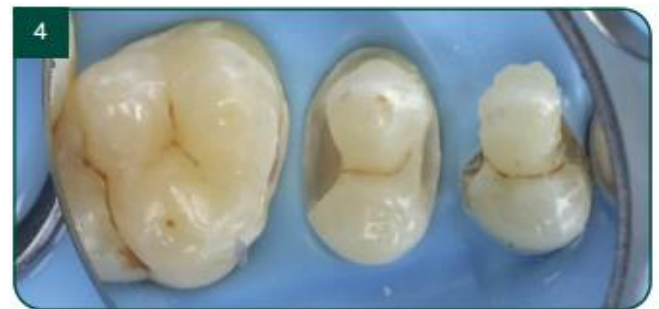
Extensive root caries in almost every tooth. Clearly it is important to improve the patient's hygiene (and diet) but to improve hygiene we really need to provide an easy to clean surface and build back some confidence and pride in the dentition.



Anterior restorations were done in a previous appointment. Even with a single shade using 3M™ Filtek™ Easy Match Universal Restorative Bright Shade, a nice and natural result was obtained.



Detail of the right quadrants.
Root caries like this is especially tricky to treat as it tends to spread around the circumference of the teeth and is often more extensive than initially presumed.



Preparations in upper right quadrant.



Preparations in upper right quadrant.
More details of the cavity extension of second upper right premolar distal.



OC Clamp and Bioclear™ Diamond Wedge to isolate. Pre-wedge helps to gain visibility and better access for cavity restoration.



Solventum™ Filtek™ Easy Match Flowable Bright shade alone was selected to restore small cavities. Viscosity is perfect for excess control in small cavities in mesial upper right first molar and mesial upper right second premolar.



Finished restoration in upper right first molar (mesial). Notice the polish and perfect shape achieved with a flowable restorative.



Sectional matrix and Incidental Ring to restore distal preparation in second premolar. After adhesive procedure using 3M™ Scotchbond™ Universal Plus Adhesive, Solventum™ Filtek™ Easy Match Flowable Restorative and 3M™ Filtek™ Easy Match Universal Restorative, both in Bright shade.



U Band for the buccal and mesial preparations in second premolar. Here the material will inevitably be overbuilt on the mesial aspect but will simply be trimmed back.



OC Clamp to isolate subgingival buccal. First premolar is a very difficult cavity. Look how the Incidental Ring can work around the clamp still to produce a decent contact profile.



Detail of Incidental Ring.



Distal contact in first premolar.



Concave margin mesial. Custom Mylar band and Bioclear™ Diamond Wedge were used. Incidental Ring showing versatility.



Immediate post-op result. Buccal view.



Immediate post-op result. Occlusal view.



KCI Medical Limited
Charnwood Campus
10 Bakewell Road
Loughborough
LE11 5RB
01509 611 611

3M Healthcare EMEA Export Limited
2 Cumberland Place
Fenian Street
Dublin 2
D02 H0V5
1 800 320 500

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Recommended products:

BD Article No.	REF	Product name
274731	6225B	Filtek™ Easy Match Flowable composite syringe refill – Bright
274733	6225N	Filtek™ Easy Match Flowable composite syringe refill – Natural
274734	6225W	Filtek™ Easy Match Flowable composite syringe refill – Warm
274735	6225K	Filtek™ Easy Match Flowable composite intro kit – syringes
276858	41295	Scotchbond™ Universal Plus adhesive – Value Pack