

Bulk Fill in Class II – Proximal Caries



Clinical case

Dr. Jordi Manauta

About the case

Second upper premolar with deep carious lesion close to the pulp.

Challenge

Use additive dentistry to increase the thickness of the tooth. Enhance esthetics by improving shape and hiding margins and defects.

Products featured in this case:



3M™ Scotchbond™
Universal Adhesive



3M™ Filtek™ One Bulk
Fill Restorative



3M™ Elipar™ DeepCure-S
LED Curing Light



3M™ Sof-Lex™ Diamond
Polishing System



Clinical dentistry and photography by Dr. Jordi Manauta

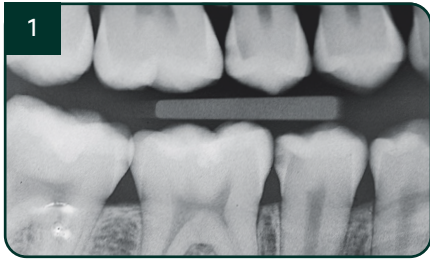


About Dr. Jordi Manauta

Jordi Manauta graduated with a degree in dentistry from the Technological University of Mexico (UNITEC) with major grants. He continued his postgraduate studies in operative and aesthetic dentistry, earning a master's degree from the International University of Catalonia (UIC) in Barcelona, Spain. Disciple of Miguel Tames (Mexico City) and Walter Devoto (Italy), he has developed and currently is developing various materials and instruments for aesthetic dentistry, dental colorimetry and photography in collaboration with international companies. He was named Honorary Professor of the University of Buenos Aires in 2022, and Global Community Professor of UDEM (Universidad de Monterrey, Mexico) he is scientific consultant for two European journals. Dr. Manauta is active member of Styleitaliano group since 2008. He is author of the books Layers and Layers2, in addition is author and coauthor of many publications in international journals and chapters in reference books.

Case overview

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



1 Radiograph of initial situation: second upper premolar with deep carious lesion close to pulp.



2 Preop: intact occlusal surface of the second premolar, carious lesion was visible on radiograph.



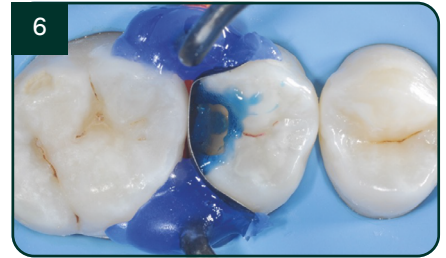
3 Insertion of a proximal wedge.



4 Customization of sectional matrix clamp.



5 Caries removal and cavity preparation. Caries detection dye was used as a diagnostic aid.



6 A 15 second selective enamel etch using 3M™ Scotchbond™ Universal Etchant followed by rinsing and air drying.



7 3M™ Scotchbond™ Universal Adhesive was scrubbed into the preparation for 20 seconds followed by air-drying and light-curing with 3M™ Elipar™ DeepCure-S LED Curing Light for 10 seconds.*



8 3M™ Filtek™ One Bulk Fill Restorative A3 was placed in one increment. The composite was cured for 10 seconds on the occlusal surface.*



9 After removal of the matrix band, the composite was cured for 10 seconds on both the buccal and lingual surface.*



10 After finishing and pre-polishing, the 3M™ Sof-Lex™ Diamond Polishing System on moist surface was used to create a high gloss polish.



11 Final outcome using 3M™ Filtek™ One Bulk Fill Restorative.



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

Learn more at [solventum.com](https://www.solventum.com)

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