

AMALGAM REPLACEMENT USING AN INNOVATIVE RESIN COMPOSITE

WITH CLEARFIL MAJESTY™ ES-2 UNIVERSAL



CASE BY MAX ANDRUP

Max Andrup graduated from the University of Umeå in 2010 and today runs his private practice in the city of Hudiksvall, Sweden. He has a passion for restorative dentistry with a biomimetic approach.

This patient presented with a fractured amalgam restoration in the occlusal aspect of the mandibular right first molar. The cavity was shallow resulting in a very favourable C-factor. The C-factor describes the relationship between bonded and unbonded restorative material surfaces and is used as an indicator for polymerization shrinkage stress development in a cavity. Hence, it is essential to manage this factor when working with resin composites.



Fig. 1.

Initial situation with the fractured amalgam restoration. In the distal aspect of the restoration, some recurrent decay is also visible.



Fig. 2.
First molar ready for a new restoration after removal of the amalgam and bevelling of the enamel.



Fig. 3.
Selective etching of the enamel prior to the application of CLEARFIL™ SE Protect into the cavity. Selective etching is performed in order to maximize the bond strength to enamel (by etching) and to dentin (without etching).



FINAL SITUATION

Fig. 4.
Final situation after restoration of the cavity with CLEARFIL MAJESTY™ ES-2 Universal in the shade U developed for posterior restorations. The favourable C-factor and the fact that the polymerization shrinkage stress produced by the selected material is very low provide the conditions for a good long-term behaviour of the new restoration.

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- ✓ General information about our products
- ✓ Full Product Assortment
- ✓ Safety Data Sheets



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