

REPLACEMENT OF A FRACTURED RESTORATION WITH A NEW UNIVERSAL COMPOSITE MATERIAL

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 had requested for an emergency appointment and presented with severe erosive tooth wear in several teeth, a crack in the mesial wall of the maxillary first molar and a failing direct restoration with recurrent decay on the adjacent second premolar. I decided to replace the direct resin composite restoration immediately as this was the main cause of discomfort. It was decided to restore the other defects during the next appointment.

The resin composite of choice was CLEARFIL MAJESTY™ ES-2 (Universal shade concept), an innovative material with a single universal shade designed for posterior restorations. The manufacturer claims that, due to the integration of Kuraray Noritake Dental Inc.'s light diffusion technology, this universal shade nicely blends in with the surrounding tooth structure virtually independent of its colour. Curious about the real potential of this concept, I wanted to put the material to a test.



Fig. 1.

Pre-operative situation revealing signs of severe erosive tooth wear, a cracked mesial wall of the first molar and a failed filling on the second premolar with recurrent decay.



Fig. 2.
Appearance of the tooth after removal of the direct composite restoration. The recurrent caries is obvious.



Fig. 3.
Caries Detector applied to the decayed tooth structure.



Fig. 4.
Establishing of a peripheral zone totally free of caries with the aid of Caries Detector. It may be useful to apply the dye several times.



Fig. 5.
The final situation after several applications of Caries Detector. The peripheral zone is completely free of caries, which is a strict requirement for the establishment of a perfect seal during bonding. Affected caries stained light pink is not removed not to risk going near the pulp.



Fig. 6.

Build-up of the proximal wall with CLEARFIL MAJESTY™ ES-2 (U shade) after the application of CLEARFIL™ SE Protect and a small layer of CLEARFIL MAJESTY™ ES Flow in a thickness of about 0,5 mm. By focusing on the proximal wall connecting to enamel first, the hybrid layer is given the time needed to mature. Not putting a new increment on top of the hybrid layer for the first five minutes will lead to an increased bond strength to dentin.



FINAL SITUATION

Fig. 7.

Appearance of the tooth immediately after finishing and polishing. Although the rubber dam is still in place and the tooth structure is not yet rehydrated, it is evident that the composite blends in very well with the remaining tooth structure to form a seamless margin.

CLEARFIL MAJESTY™ ES-2 Universal

VISIT THE PRODUCT PAGE ONLINE FOR MORE DETAILS

WHAT CAN YOU EXPECT TO FIND ONLINE

- ✓ General information about CLEARFIL MAJESTY™ ES-2 Universal
- ✓ Full Product Assortment
- ✓ Safety Data Sheets



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