

Esthetic replacement of two restorations on mandibular second molar

By Dr. Giuseppe Chiodera, Italy

About the Case

Male patient, 28 years old. The patient came to the office for a routine check-up. The mandibular second molar showed two insufficient fillings (occlusal and buccal) with sec-

ondary caries, open margins and occlusal wear. Both restorations needed to be replaced. The patient opted for an esthetic, multi-layer composite restoration for a natural looking outcome.

Challenge

Poor accessibility and visibility of this restoration lead to a variety of clinical challenges such as composite placement and proper light curing. **DT**



Dr. Chiodera graduated from the University of Brescia with a degree in Dentistry. Winner of a scholarship of Kings College University of London in 2004. Dr. Chiodera is an author of articles in various national and international magazines. At the moment he is working in a private practice in Brescia and specialising primarily in conservative dentistry and endodontics.



Fig. 1: Initial situation: mandibular second molar with restorations require replacement.



Fig. 2: After placement of rubber dam the insufficient fillings were completely removed.



Fig. 3: After selective enamel etching, Single Bond Universal Adhesive was applied.



Fig. 4: Adhesive was cured for 10 seconds with Elipar™ DeepCure-S LED Curing Light after scrubbing and air drying steps were completed.



Fig. 5: Filtek™ Z350 XT Flowable Restorative, shade A3 was used as a liner for easy adaptation.



Fig. 6: Dentin was replaced with incremental placement and curing of Filtek™ Z350 XT Universal Restorative, shade A3B.



Fig. 7: Enamel was replaced with Filtek™ Z350 XT Universal Restorative, shade A3E and light cured. Stains were applied in the fissure.



Fig. 8: The initial finishing was completed with Sof-Lex™ Discs, followed by pre-polishing with Sof-Lex™ Pre-Polishing Spiral and high gloss polish with Sof-Lex™ Diamond Polishing Spiral.



Fig. 9: Final restorations with an excellent esthetic appearance.

3M Science. Applied to Life.™

Practical dental solutions to apply in your clinic.

3M™ Health Care Academy

The lectures are now available online on www.dentistryinpractice.com

Practical dental solutions to apply in your clinic

By 3MSM Health Care Academy

3M is a global innovation company that never stops inventing. Over the years our innovations have improved daily life for hundreds of millions of people all over the world. Every day at 3M, one idea always leads to the next, igniting momentum to make progress possible around the world. You can now be a part of our world of science and learn how it is applied to life!

In May 2016 dental professionals and opinion leaders from Central and Eastern Europe and Middle East gathered in Warsaw for the "Dentistry in Practice International Meeting" provided by 3M. In 22 specialized lectures practical information, trends and solutions were shared. Solutions, based on modern science, which can be applied in any dental office, making patient care more effective, comfortable and safer. **DT**

Stay on top of your dental practice! Access the lectures online at www.dentistryinpractice.com

Contact Information

Elena Golubeva
Marketing Manager CEEMEA
Oral Care Solutions Division
egolubeva@mmm.com