Treatment of a deep carious lesion of second lower premolar with 3M™ Filtek™ One Bulk Fill Restorative

Clinical dentistry and photography by: Dr. Filippo Dini, Viareggio, Italy

About the Case:
Male patient 47 years old.
Patient reported pain when drinking cold beverages. The x-ray showed the extension of caries close to pulp. Endodontic treatment was required.

Challenge:
The deep cervical margin and the preservation of tissue for the post-endo restoration posed challenges in this case. Excellent adaptation between the material and cavity walls is critical.

Step-by-Step:

Fig. 1: Initial Situation: Second lower right premolar with a deep carious lesion restoration that required endodontic treatment. Image is showing the final preparation after removing the temporary filling.

Fig. 2: Placement and adaptation of the sectional matrix.

Fig. 3: Enamel is etched for 15 seconds using 3M™ Scotchbond™ Universal Etchant for a selective etch approach, followed by rinsing and drying.

Fig. 4: 3M™ Scotchbond™ Universal Adhesive is applied and scrubbed into the surface for 20 seconds.

Fig. 5: After air drying for approximately 5 seconds, the adhesive is light cured for 10 seconds with 3M™ Elipar™ DeepCure-S LED Curing Light.

Fig. 6: 3M™ Filtek™ One Bulk Fill Restorative, in shade A3, is directly placed into the cavity in a single increment and then cured according to the Instructions for Use.
Treatment of a deep carious lesion of second lower premolar with 3M™ Filtek™ One Bulk Fill Restorative (continued)

The 3M Difference:

In deep and tight cavities, incremental layering can be a timely challenge and lead to poor marginal adaptation. With its easy handling and excellent adaptation, 3M™ Filtek™ One Bulk Fill Restorative enables one-step placement up to 5 mm, without compromising the esthetics of posterior restorations.

Refer to Instructions for Use (IFU) for complete product information.