

Replacement of a single-unit molar crown: Monophase impression using 3M™ Impregum™ Penta™ Super Quick Polyether Impression Material

Clinical dentistry and photography by: Dr. Gunnar Reich, Munich, Germany
Lab work by: MDT Nicole Freund, Tutzing, Germany

About the Case:

Patient with a fractured crown on second upper molar that needed replacement. Impression was made with 3M™ Impregum™ Penta™ Super Quick Medium Body Polyether Impression Material in the monophase technique.



Initial situation: Second upper molar needs a crown after endodontic treatment. Insufficient filling on adjacent tooth needs to be renewed.



In order to prepare the situation for impression taking, 3M™ Astringent Retraction Paste was used for moisture management.



Impression was taken in the monophase technique using 3M™ Impregum™ Penta™ Super Quick Medium Body Polyether Impression Material. Syringing of the impression material around preparation with the 3M™ Penta™ Elastomer Syringe while the tray was filled simultaneously.



Final impression made with a single-use 3M™ Impression Tray. Due to its self-retentive fleece strip a separate tray adhesive is not required. The impression shows crisp details and a clear circumferential mapping of the preparation line.



Final situation: Monolithic 3M™ Lava™ Esthetic Fluorescent Full-Contour Zirconia crown on the second molar and a renewed filling on the first molar.