Posterior restoration with glass ionomer cement

Posteriors must endure more stress than fillings in any other region. These restorations must therefore exhibit very high abrasion resistance, compressive and transverse strength. With VOCO Ionofil Molar AC glass ionomer cement, there is a proven material concept for tooth-coloured, posterior restoration that not only delivers excellent physical properties, but also especially simple handling.

VOCO Ionofil Molar AC does not require manual mixing, etching or bonding and can be applied directly from the convenient application capsule. Furthermore, the cement exhibits high viscosity and a non-tacky consistency, in addition to being immediately packable after application. With its secure adhesion to dentine and enamel, this glass ionomer cement provides extremely stable fillings that are free from marginal leakage. Thanks to its tooth-like translucency, the aesthetic restoration provides a natural appearance.

VOCO Ionofil Molar AC does not contain harmful ingredients and is thus safe and biocompatible. Furthermore, its continuously high fluoride release contributes to the prevention of secondary caries. VOCO Ionofil Molar AC in its Quick version provides an even faster treatment process with a setting time of only two and a half minutes. The Quick version is thus especially suited for treating children and anxious patients. Both glass ionomer cements, VOCO Ionofil Molar AC and VOCO Ionofil Molar AC Quick, are suitable for multiple indications: Class I posterior fillings (non load-bearing), Class I and II long-term, temporary treatments, buildups and liners, core buildups, restoration of deciduous teeth, plus restoration of wedge-shaped defects and enamel erosion in the cervical region. Using a specially developed application cap with an extra-long cannula and a small opening, precise application and thus the highest amount of application comfort possible are facilitated with all of the above-stated indications.

Protective varnish for sealing

Easy Glaze, the nano-filled, light-curing protective varnish from VOCO, is especially suited for sealing glass...
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Case study

A patient with a molar restored with amalgam presented in our surgery complaining of sensitivity (Fig. 1). Marginal leakage was detected when the tooth was examined more closely (Fig. 2). As the first step, we began by removing the amalgam (Fig. 3). Figure 4 shows the completed cavity preparation. Afterwards, we selected a capsule of VOCO Ionofil Molar AC in the shade of A3 (Fig. 5). Cleansing the cavity with 3 percent hydrogen peroxide followed. After thoroughly rinsing with water, the dentine must remain sufficiently hydrated (Fig. 6). After the preparation was complete, the filling with VOCO Ionofil Molar AC was placed. The product chemically adheres to enamel and dentine, while releasing fluoride ions. These properties were ideal for this clinical situation, as the tooth was sensitive and needed a long-term provision filling (Fig. 7). After the restorative had set and finishing was complete (Fig. 8), Easy Glaze, the protective varnish, was dispensed. The ideal balance between viscosity and flowability could be observed here (Fig. 9). The finished filling was immediately coated with Easy Glaze (Fig. 10) and subsequently light-cured (Fig. 11). Figure 12 displays the completed restoration with a shiny surface. DA

About the author