



Fig. 1 Application E-Bond LC

Restoration in the posterior region with Nanofill Unique

The requirement for a reconstruction with adhesive materials lies not only in the durability and function of the filling, but also the esthetics. Nowadays, patients are rarely willing to forgo tooth-colored restorations. In the patient case presented here, the restoration of tooth 44 with a new filling described using Bisico products of E-Bond LC, Bisico BulkFill and Nanofill Unique.

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After an insufficient filling in region 44 was discovered during the annual check-up, the patient (75 years old) presented for filling therapy.

The patient's medical history did not reveal any abnormalities relevant to the planned treatment. First, the insufficient filling on tooth 44 was removed and the secondary caries removed. Secondary preparation improved the cavity design so that tooth 44 was now ready to receive a composite filling. The combination of coordinated materials is essential for successful treatment. With relative dryness, shaping was carried out with the aid of a half-band matrix system. For adhesion, E-Bond LC (Fig.1) was applied after selective enamel etching with 37% H₃PO₄. Bisico BulkFill (Fig. 2) was used as a stress breaker in the proximal box.



Fig. 2 Polymerization E-Bond LC



Fig. 3 Applikation Bisico BulkFill

Then, the reconstruction was performed with Nanofill unique (Fig.3) using the increment technique. The final modeling of the occlusal relief was performed with a conventional Heidemann spatula and ball plugs. The excellent adaptation of the material to the cavity walls without undesired adhesion to the instruments should be mentioned here.

Fortunately, handling is easy due to good formability, and the good polishability also allows a perfect gloss to be achieved in just a few steps, although the occlusion had to be slightly corrected with diamond-coated grinding instruments



Fig. 4 Nanofill unique in increment technique

Conclusion

In order to cover different tooth shades, it was necessary in the past to stock various composites in these different tooth shades. This can be problematic in that the rarely used “exotic composites” often have to be disposed of when the expiration date expires. It is more sustainable to use a material that automatically adapts to the different tooth shades of our patients, such as the universal composite Nanofill unique from Bisico. Through an efficient treatment protocol and the use of Nanofill Unique,

an esthetically satisfactory result was able to be achieved for the patient. The time savings had a positive effect on the treatment, as the time-consuming color selection process was eliminated thanks to the continuous adaptability of Nanofill Unique.

It is also this steplessness in shade matching that provides the decisive advantage over ready-made shades, as a broader spectrum can be covered without having to use different composites within one treatment.

This effect is achieved by the material seamlessly adapting to the surrounding tooth structure by reflecting its own color thus reproducing a wide range of tooth shades



Fig. 5 before-after comparison



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