

TREATMENT OF A CARIOUS LESION WITH A SINGLE-POSTERIOR-SHADE COMPOSITE

WITH CLEARFIL MAJESTY™ ES-2 Universal



CLINICAL CASE WITH
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When restoring posterior teeth with resin composite, functional aspects such as tight and anatomically correct proximal contacts and a naturally shaped occlusal surface that is wear-resistant and antagonist-friendly are even more important than a perfect optical integration. This is why every dental practitioner should avoid spending a lot of time on shade selection in these cases and focus on the factors that have an impact on the reliability and longevity of the restoration. Great support in accomplishing this task is offered by CLEARFIL MAJESTY™ ES-2 Universal, a resin composite with a single universal shade (U) for the posterior region that eliminates the need for shade taking and selection. At the same time, it offers good marginal adaptation, low shrinkage stress and high wear resistance needed for great long-term results.



Fig. 1.

Initial situation with a wide primary carious lesion in the distal aspect of the second premolar.



Fig. 2.

Premolar after isolation of the working field with rubber dam, caries excavation and cavity preparation.



Fig. 3.

Placement of a sectional matrix and a wedge to optimize the fit. Both are held in place with a separation ring, which increases the interproximal space and hence ensures tight, anatomically correct proximal contacts.



Fig. 4.

Build-up of the proximal wall with CLEARFIL MAJESTY™ ES-2 Universal (U shade) following selective enamel etching with phosphoric acid (K-ETCHANT Syringe) and bonding with CLEARFIL™ SE Bond.



Fig. 5.

A thin layer of flowable composite (CLEARFIL MAJESTY™ ES FLOW High) applied to the cavity floor to act as a resin coat.



Fig. 6.

Restoration completed with CLEARFIL MAJESTY™ ES-2 Universal (U shade). While the universal-shade composite blends in very well with the surrounding tooth structure, the natural look is completed by adding a tiny bit of brown tint to the fissure.



Fig. 7.

Treatment outcome immediately after rubber dam removal. The proximal contact is tight and the occlusal anatomy well-shaped for the patient's individual masticatory dynamics. The margin of the restoration is virtually invisible, while the buccal cusp appears lighter due to dehydration of the natural tooth structure.



FINAL SITUATION

Fig. 8.

Treatment outcome after two months.

Conclusion

The present case demonstrates that the selected composite is well-suited for simplified restoration procedures in the posterior region. The material handles well, offers the same mechanical properties as other materials from the CLEARFIL MAJESTY™ ES-2 series and blends in harmoniously with the surrounding structures without being too translucent. This way, it is possible to waive the shade-taking process without compromising the treatment outcome. The time saved in this context may be spent on functional aspects – or even on another patient.

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