Building up the perfect tooth with composite resins

The appearance of the upper anterior teeth in the preoperative situation was unsatisfactory. Tooth #11 looked particularly unattractive and neither its shape nor its shade met the standards of a high-quality dental restoration. In order to obtain a clearer understanding of the preoperative situation, a gross image was produced (Fig. 1), illustrating the insufficient brilliance and lack of transparent areas.

In addition, surface structures and their various transitions, as well as wave-like white striations, were visible. From the incisal aspect, the vestibular contour looked distinctly uneven (Fig. 2). As a result, the right incisal became towards the labial aspect. The wing effect of the teeth in this particular case could therefore not be reconstructed. Consequently, tooth #11 looked out of place.

The shade system of IPS Empress Direct comprises various dentine shades with high opacity. It is suitable for achieving bright effects (Bleach L/XL) or providing complete coverage (IVA 5/A6). The system also includes matching enamel materials with a high opacity. They are suitable for achieving bright effects (Bleach L/XL) or providing complete coverage (IVA 5/A6). The system also includes matching enamel materials with a high opacity.

The shade system of IPS Empress Direct comprises various dentine shades with high opacity. They are suitable for achieving bright effects (Bleach L/XL) or providing complete coverage (IVA 5/A6). The system also includes matching enamel materials with a high opacity.

The preparation of the preoperative situation was unsatisfactory. Tooth #11 looked particularly unattractive and neither its shape nor its shade met the standards of a high-quality dental restoration. In order to obtain a clearer understanding of the preoperative situation, a gross image was produced (Fig. 1), illustrating the insufficient brilliance and lack of transparent areas.

In addition, surface structures and their various transitions, as well as wave-like white striations, were visible. From the incisal aspect, the vestibular contour looked distinctly uneven (Fig. 2). As a result, the right incisal became towards the labial aspect. The wing effect of the teeth in this particular case could therefore not be reconstructed. Consequently, tooth #11 looked out of place.

The shade system of IPS Empress Direct comprises various dentine shades with high opacity. They are suitable for achieving bright effects (Bleach L/XL) or providing complete coverage (IVA 5/A6). The system also includes matching enamel materials with a high opacity.

The shade system of IPS Empress Direct comprises various dentine shades with high opacity. They are suitable for achieving bright effects (Bleach L/XL) or providing complete coverage (IVA 5/A6). The system also includes matching enamel materials with a high opacity.

The appearance of the upper anterior teeth in the preoperative situation was unsatisfactory. Tooth #11 looked particularly unattractive and neither its shape nor its shade met the standards of a high-quality dental restoration. In order to obtain a clearer understanding of the preoperative situation, a gross image was produced (Fig. 1), illustrating the insufficient brilliance and lack of transparent areas.

In addition, surface structures and their various transitions, as well as wave-like white striations, were visible. From the incisal aspect, the vestibular contour looked distinctly uneven (Fig. 2). As a result, the right incisal became towards the labial aspect. The wing effect of the teeth in this particular case could therefore not be reconstructed. Consequently, tooth #11 looked out of place.

The shade system of IPS Empress Direct comprises various dentine shades with high opacity. They are suitable for achieving bright effects (Bleach L/XL) or providing complete coverage (IVA 5/A6). The system also includes matching enamel materials with a high opacity.

The shade system of IPS Empress Direct comprises various dentine shades with high opacity. They are suitable for achieving bright effects (Bleach L/XL) or providing complete coverage (IVA 5/A6). The system also includes matching enamel materials with a high opacity.

The following article describes the fabrication of a composite resin restoration in an anterior tooth using IPS Empress Direct. The procedure is described chronologically, starting with shade selection and ending with the final design adjustments.

Selecting a material suitable for the task at hand is essential to a successful outcome. The shade range of IPS Empress Direct composite resin (IVoclar Vivadent) comprises five dentine materials and five matching enamel shades (high translucency). Stronger and more translucent shades are also available, some of which are opalescent, for designing the lateral enamel structures and incisal edges. This well-rounded range of shades and layering materials facilitates the creation of natural-looking restorations using composite resin.

The following article describes the fabrication of a composite resin restoration in an anterior tooth using IPS Empress Direct. The procedure is described chronologically, starting with shade selection and ending with the final design adjustments.