Composite 3D
- diastema closure -
& biomimetic effects

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Adhesive restorations are often the easiest way to correct aesthetically displeasing tooth positions. This procedure involves a quick and simple method, which allows the creation of restorations featuring harmonious proportions. This purely additive treatment is very well received by patients, because it results in a quick and aesthetically pleasing change. The step-by-step procedure to design a natural emergence profile is described below. The main tools are a silicone index and a clear matrix strip.

Realization of a mock-up for the visualization of the end-result and the creation of a silicone key

In order to obtain natural-looking proportions, it is necessary to prepare a mock-up. This is prepared as follows: a composite resin in an opaque dentin shade is applied to the non-conditioned (unetched and unbonded) tooth surface (Fig. 2). After light-curing, it becomes clear if the shade selection is correct and can be adopted for the final restoration. In order to create natural-looking restorations, the length and width ratios should already be visualized in the mock-up. The proportions of the pair tooth can be mimicked and corrected if necessary. Finally, an impression of the mock-up is made from lingual / palatal side (Fig. 3), in order to obtain a design tool known as a silicone index (Fig. 4). The silicone index shows the palatal areas of the mock-up. Therefore it is important to ensure that the palatal and in particular the interdental structures are shaped according to anatomical criteria, even during the preparation of the mock-up. To obtain a better fit and repositioning of the silicone matrix for the subsequent treatment stage, the patient should bite on two cotton rolls in the posterior area. The patient can also bite directly onto the back of the silicone key (Fig. 5), to ensure a better repositioning.

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