

AURA BY SDI

Direct Restoration – Easy, Quick and Secure

Studies have shown that 86 percent of dentists are not able to closely match the natural tooth colour during restoration. Today, most dentists, use various composites by a wide range of manufacturers in their practices. In addition the new bulk-fill materials broaden this whole spectrum.

SDI has changed its approach and now offers the new composite system Aura in order to make everyday work in dental practices significantly easier.

1. Due to the new colour management, the determination of the tooth shade is accomplished with less effort.
2. Aura is suitable for the entire range of direct restorations. As a consequence no other composites need to be purchased or stored.
3. Aura does not stick to the instrument and can therefore be excellently modelled.
4. Aura's microfillers result in a simple polishability and natural high-gloss finish.

Aura is guided by the natural tooth structure and utilizes the fact that tooth colour is mainly determined by the dentine. The enamel shades mimic different kinds of natural enamels which were classified into three different age groups; based on the changing translucency, opacity, and opalescence of aging natural enamels. Consequently the determination of the colour of the dentine takes place in the cervical third of the crown, and the determination of the shade of the tooth enamel takes place in the incisal region.

Aura's dentine and tooth enamel material differ with respect to the composition of their fillers in order to ensure minimal shrinkage and high compression stability, on the one hand, as well as good polishability and long-lasting good surface quality, on the other.

Four multipurpose chroma shades for general restorations and a bulk-fill composite, which exhibits the chameleon effect to a large extent, round out the system.

PATIENT CASE

A 20-year old patient with a caries induced fracture of the mesio-incisal edge of tooth 22 was treated (Fig. 1).

Initially a professional tooth cleaning was performed, followed by one application of bleaching with Pola Office + 6% – the in-office bleaching system, which no longer requires a gingival protection. In the next step, the colour of the dentine was determined in the cervical third of the crown and the colour of the tooth enamel was determined in the region of the incisal edge by using the shade guide included in the "Aura Master Kit" (Fig. 2). Teeth 21 to 23 were isolated with a dental dam, the fractured edge of the tooth trimmed and the caries removed. In the areas near to the pulp, residual caries was left and infiltrated with a diamine silver fluoride solution (Fig. 3).

The trend to not necessarily radically excavate carious lesions has recently gained more acceptance in research. Numerous scientific publications demonstrate the effectiveness of diamine silver fluoride in the stabilisation and disinfection of caries-infected dentine. However, its application has not been fully implemented because of the unavoidable stains due to the silver particles. After the application of a thin layer of a light-curing GIC the cavity was conventionally etched with a 37 percent phosphoric acid and a one-component adhesive (Stae, Unidose by SDI) applied. The previously formed metal matrix was fixated – sparing the papilla – with the help of FixaFloss (Kerr-Hawe).

First the palatal wall and the incisal edge were constructed with Aura Enamel (Shade E2) (Fig. 4), followed by the layering of the dentine core with the Aura dentine material (Shade DC3) (Fig. 5) and the final layer using the tooth enamel material (Shade E2). The completed restoration was finished and polished with finishing and polishing disks (OptiDisc by Kerr-Hawe) and a yellow egg-shaped diamond reamer for the palatal contours under permanent spray cooling.

Here the excellent polishing characteristics of the Aura tooth enamel material, which result in a natural lustre in only a few steps, become apparent.



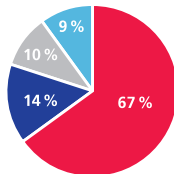


DIRECT RESTORATION – EASY, QUICK AND SECURE

A few of your colleagues had the opportunity to test this product thoroughly. These are the results:

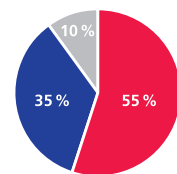
HOW DO YOU EVALUATE THE ACCURACY OF SHADE TAKING WITH AURA?

67 % easy
14 % very easy
10 % difficult
9 % not specified
0 % very difficult



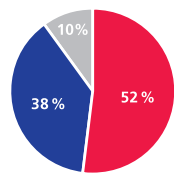
HOW DO YOU EVALUATE THE CHAMELEON- EFFECT OF THE AURA BULK-FILL MATERIALS?

55 % good
35 % very good
10 % satisfying
0 % sufficient



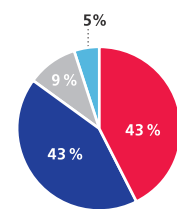
HOW DO YOU EVALUATE THE PROCESSING OF AURA?

52 % good
38 % very good
10 % satisfying
0 % sufficient



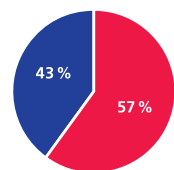
HOW DO YOU EVALUATE THE VOLUME SHRINKAGE OF AURA?

43 % good
43 % very good
9 % not specified
5 % satisfying
0 % sufficient



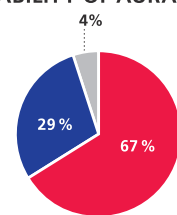
HOW DO YOU EVALUATE THE COLOUR STABILITY OF AURA AFTER POLYMERISATION?

57 % good
43 % very good
0 % satisfying
0 % sufficient



HOW DO YOU EVALUATE THE POLISHABILITY OF AURA?

67 % very good
29 % good
4 % sufficient
0 % satisfying



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