SR Adoro® - Practical experiences with a new veneering composite

Which is the fairest of them all?
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Veneering composites have to do a demanding job and do it well. They have to harmonize with all metal alloys as well as provide sufficient strength to permit the fabrication of inlays and small partial crowns. In addition, they have to be suitable for both removable and fixed denture prosthetics. Most important of all, veneering composites should be both easy to use and polishable to an impeccable surface finish. Adoro, a new veneering composite from Ivoclar Vivadent, produced promising results in a trial carried out by the School of Dental Medicine at the University of Bern in Switzerland.

Layering technique and handling
The SR Adoro composite system offers a comprehensive basic kit consisting of neck, dentin, incisal and transparent materials and the customary working accessories as well as speciality kits, such as the Deep Dentin, Impulse, Gingiva and Stains Kit. The Basic Kit and Deep Dentin Kit are available in Chromascop and A-D shades, while all the other kits are provided in shades that are independent of any shade system. While the high-viscosity paste-like materials are provided in light-protected screw-plunger syringes (3 g; see picture below), the low-viscosity materials are supplied in push syringes (1 and 2 ml) with attachable application tips. The application tip can be left on the syringe after use and sealed with a cap, which is delivered together with the syringe. The structure of the SR Adoro system, the range of shades and the layering technique have been designed according to the IPS d.SIGN fluorapatite leucite glass ceramic system. After application of the paste-like opaque (see Fig. 2 and 3), the individual materials are applied in the customary layering technique. The range

Fig. 1 We have chosen the new SR Adoro composite (Ivoclar Vivadent) as the veneering material for the mandibular framework. SR Adoro is tempered at 104 ºC using light and heat.

Fig. 2 Application of the paste-like SR Adoro opaque: The material is easy to apply due to its thin yet masking consistency.

Fig. 3: Lingual view after the application of two masking layers of opaque
of characterization materials and intensive shades enable the user to create restorations that closely resemble the natural tooth (Fig. 4 through 6). Given its soft, non-sticky consistency, SR Adoro is easy to apply and contour. The above mentioned light/heat tempering process is carried out either in the newly developed Lumamat 100 furnace or a Targis Power unit, which has to be upgraded for this function. The necessary upgrade is carried out by the manufacturer for free.

Figures 7 and 8 show the final prosthetic work on the model. Figure 9 shows the lower surface of the bridge: the surface exhibits a very smooth finish that is highly resistant to plaque formation.
Harmony of shade

The pictures of the prosthetic work in situ clearly show that the upper and lower reconstructions have been successfully matched to each other in terms of shade and shape (Fig. 10 through 12). As the shade of the resin teeth (SR Antaris/SR Postaris) and the veneering composite are coordinated with each other, selecting and matching the shades did not create any difficulty. The SR Adoro neck materials are specifically matched to the SR tooth lines by the manufacturer. The manufacturer also applies its policy of providing fully integrated systems to its metal ceramic, cementation and direct restoration systems.

Which veneering composite is the best of them all?

Today’s composite materials permit the fabrication of veneers and restorations that look as vibrant and natural as high-quality ceramic restorations. Two characteristics are essential to maintain the original shine and lustre of a restoration and to prevent plaque formation: good polishability and a smooth surface finish. Patients should be able to look at a restoration in the mirror and be pleased with what they see even after a certain period of service. Microfilled composites do particularly well in this respect.

The new SR Adoro composite veneering system is based on microfillers and is cured with both light and heat. The material exhibits excellent polishing properties in the laboratory. Layering and contouring the individual materials is a real pleasure. Moreover, matching the material to, for instance, the resin teeth and ceramic materials from Ivoclar Vivadent is possible without difficulty. SR Adoro stands a good chance of being chosen the veneering composite that is the ‘fairest of them all’.

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