

Dentsply Sirona's new Surefil one: An innovation in restorative filling materials

Direct posterior restorations make up two thirds of all direct restorations in a dental practice¹ and composite resin is the preferred material of choice for these restorations.² Yet, one out of four cases can be defined as challenging due to isolation control, patient compliance or the margin being sub-gingival.³ Due to the technique sensitivity of resin-based materials, composites are not the material of choice for these situations. Surefil one from Dentsply Sirona now offers an ideal alternative for these situations by providing the convenience of a glass ionomer with the durability of a composite. This new material will be available in the US starting October 12th.

Charlotte, October 1st, 2020. A growing number of patients today are requesting amalgam free restorations for esthetic and environmental reasons. The alternatives to amalgam are resin-based composites or glass ionomers. Composites require complete isolation throughout the entire procedure and have a sensitive adhesive technique to ensure maximum adhesion is obtained between the composite and tooth structure. Because the composite procedure can be time consuming and isolation is critical, it is not the preferred material for certain clinical situations. Alternatively, many glass ionomers available today are not indicated for use as a permanent restorative material due to their inferior mechanical properties. This can lead to premature failure and required re-treatment at the expense of the clinician resulting in patient dissatisfaction and practice inefficiencies.

Surefil one, an innovative filling material, now offers an ideal alternative. Procedures can be performed quicker than using composites with a more durable outcome than glass ionomers.⁴ Surefil one is available in five shades: Bleach White, A1, A2, A3, and A3.5.

Convenience and Durability

For the first time ever, the simplicity of a glass ionomer and the durability of a resin-based composite have been combined to create an entirely new material class, the first ever self-adhesive composite hybrid.

Surefil one has an unlimited depth of cure - providing assurance in very deep cavities that a complete cure will be obtained without layering. It can also be light cured, so the restoration can be finished and polished immediately after surface light curing. Studies have demonstrated that

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About Dentsply Sirona:

Dentsply Sirona is the world's largest manufacturer of professional dental products and technologies, with over a century of innovation and service to the dental industry and patients worldwide. Dentsply Sirona develops, manufactures, and markets a comprehensive solutions offering including dental and oral health products as well as other consumable medical devices under a strong portfolio of world class brands.

Dentsply Sirona's products provide innovative, high-quality and effective solutions to advance patient care and deliver better and safer dental care. Dentsply Sirona's headquarter is located in Charlotte, North Carolina. The company's shares are listed in the United States on NASDAQ under the symbol XRAY.

Visit www.dentsplysirona.com for more information about Dentsply Sirona and its products.

¹ American Dental Association Procedure Recap Report, 2006.

² The Key Group Omnibus survey, 2018, USA.

³ Data on file.

⁴ Prof. Frankenberger. Amalgam Alternatives Critically Evaluated: Effect of Long-term Thermomechanical Loading on Marginal Quality, Wear, and Fracture Behavior. Journal of Adhesive Dentistry 2018; Vol. 22(1): p. 107-116

Surefil one restorations are as durable as a composite: in chewing simulations, it was shown that after 500,000 cycles, no evidence of fractures or damage was present while the glass ionomers tested in this chewing simulation partially showed fractures after fewer than 100,000 chewing cycles.⁵

Shorter treatment time due to faster, more efficient handling

Fewer steps in the procedure make the restorative treatment even more efficient and faster. With Surefil one, dentists can fill a cavity in just one layer, without etching or bonding, minimizing the window of risk for when contamination can occur during the procedure.

The reduced procedure time is a clinical advantage especially in cases where isolation is a challenge or patient compliance is not ideal.

Surefil one joins the trusted Class II Solution family

Surefil one now joins the Class II Total Practice Solution from Dentsply Sirona as the solution for challenging Class II situations. Acknowledging that the clinical requirements for a successful Class II restoration change based on the situation, the treatment recommendations differ. In challenging situations when isolation becomes the critical factor in determining success of the restoration, the Class II Total Practice Solution with Surefil one from Dentsply Sirona is an excellent solution.

“Surefil one is a great innovation for the dental practice” said Dr. Chris Campbell of Columbia, SC. “One of the things we look for as dentists are products that solve real-world issues that we encounter each and every day. Surefil one allows us to predictably restore teeth in compromised clinical situations. Whether it’s difficult isolation, a challenging patient, or any other situation that is inherently unpredictable, Surefil one rises to the task unlike any restorative material we’ve had up to this point in our profession”.

Conversely, when the situation is ideal, in approximately 3 out of 4 cases⁶, adaptation at the floor of the proximal box becomes the critical factor in determining success of the restoration. In those scenarios, the Dentsply Sirona Class II Total Practice solution with market leading SDR flow+ material is recommended.

Further information on Surefil one can be found at www.dentsplysirona.com/surefilone

⁵ Journal of Adhesive Dentistry 2018; Vol. 22(1): p. 1-123

⁶ International Survey, 2019, France, Italy, Germany, USA.

IMAGES

are available for [> download](#) on the website.



Fig. 1: A real alternative for treating patients with a tooth-colored restoration quickly, safely, and permanently: posterior restorations with the new Surefil one.



Fig. 2: Dr. Chris Campbell, dentist from Columbia, SC.



Fig. 3: Surefil one offers a real alternative for these situations by providing the convenience of a glass ionomer with the durability of a composite.