SDF® is celebrating 10 years of advanced bulk fill technology

By Dentsply Sirona

Esthetics meet high-tech: ‘The SmartLite Pro, the new curing light from Dentsply Sirona, has won the German Design Award 2020 for outstanding design quality. The prize is awarded in the category Excellent Product Design – Medical, Rehabilitation and Health Care.

Dentsply Sirona set new standards with its SmartLite Pro, an innovation in light curing. The curing light, which combines elegant design and maximum efficiency, also impressed the jury of the German Design Award 2020. “We are very pleased to have won this prestigious award. It acknowledges our goal of always focusing on our customers’ needs for maximum functionality and esthetics when developing new products,” says Michael Kleinhaus, Senior Global Brand Manager.

Platform solution grows with future technological innovations

The SmartLite Pro’s lightweight and finely balanced pen-style design makes it unique. As a future-oriented platform solution, the curing light grows with technological innovations. It can be upgraded at any time with further attachments so that dentists can continue to offer their patients the best possible treatment in the future.

Functionality is tailored in detail to the requirements of daily practice routines. A single button enables easy and intuitive use of the SmartLite Pro Four high-performance LEDs ensure homogeneous light distribution over the entire 10 mm active curing area, even completely covering fillings with a large horizontal extension. The additional Transillumination Tip detects interproximal caries or fractures with a focused white light. It also illuminates endodontic access cavities. The stainless steel and anodized aluminum housing provide robustness and durability.

The award ceremony took place in Frankfurt on February 7, 2020. The German Design Award is one of the most prestigious design competitions across the globe and has an excellent reputation far beyond professional circles.


For more information about the full Dentsply Sirona portfolio please contact your local representative.

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German Design Award 2020

Outstanding design, unique functionality

By Dentsply Sirona

When Dentsply Sirona introduced its new bulk fill flowable composite in 2010, clinicians gained the ability to place a full 4 millimeters of highly flowable and self-leveling material, greatly simplifying posterior restoration procedures.

The new SDF® material provided seamless adaptation to cavity walls for excellent marginal integrity with no additional manipulation required. It also offered low shrinkage stress with minimal risk of gap formation during light curing.

In 2020, Dentsply Sirona is happy to celebrate the 10th anniversary of SDF® materials — the global market leader for bulk fill of posterior restorations.

The challenge of posterior restorations

Posterior Class II restorations account for 45 percent of all direct restorations. While esthetically less demanding, posterior restorations are often challenging due to restricted access, limited visibility, and in many cases the large size of the cavity. Placing a standard composite in these conditions can be difficult, as the material must be adapted manually and layered in several increments to control shrinkage stress.

SDF® introduced industry-leading technology for bulk fill of cavities, making Class II procedures significantly more efficient with no sacrifice to restoration longevity.

Behind the technology

SDF® technology incorporates unique resins in an advanced formula that makes SDF® Plus material the first flowable composite to allow for bulk fill placement at a depth of 4 millimeters.

SDF® Plus material has quickly become the most widely used bulk fill material. It’s also the most researched and proven one, as shown by several long-term clinical studies, flourishing support throughout the dental community, and more than 62 million clinical applications worldwide.

In a six-year study, SDF® technology used in a bulk fill technique in conjunction with a Dentsply Sirona universal composite showed long-term survival rates equal to restorations that used a conventional layering technique. Investigators compared 38 Class II and 15 Class I restorations using the SDF® material bulk fill technique against the same number of restorations using a layering technique. They concluded that the bulk fill technique is clinically safe and exceptionally durable, with equivalent failure rates in both groups (three Class II failures in each group).

The standard of care

Dentsply Sirona made bulk fill flowable composite possible, establishing the bulk fill technique as a standard of care for direct posterior restorations. For 10 years, SDF® has exemplified our mission of creating better, faster, and safer dental care. We look forward to another 10 years of continued and growing clinical success.

1 Data on file

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