CLEARFIL™ SA CEMENT – clinical case report

CLEARFIL™ SA CEMENT for the cementation of a crown made of Li-disilicate

The 25 year old female patient received a crown made of Li-disilicate on the non-vital tooth 46 after removal of a 15 year old, failed metal crown. In this case CLEARFIL™ SA CEMENT was used in light and self-curing mode.

The 33 year old female patient received a crown made of Li-disilicate on the non-vital tooth 46 after removal of a 15 year old, failed metal crown. In this case CLEARFIL™ SA CEMENT was used in light and self-curing mode.

CLEARFIL™ SA CEMENT for the cementation of a zirconia crown

The 87 year old female patient received a zirconia crown on tooth 11 after core build-up. In this case CLEARFIL™ SA CEMENT was used in light and self-curing mode.

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A market investigation

In the run-up to the market introduction in Germany, CLEARFIL™ SA CEMENT was tested and evaluated by 18 dentists, with 13 of the 18 colleagues having already used self-adhesive cements in their dental clinic theatres.

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CLEARFIL™ SA CEMENT – a new self-adhesive composite resin cement

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CLEARFIL™ SA CEMENT – clinical case report

Clinical case report by Dr. Katrin von Nüss, Dr. Christoph von Wenz zu Niederlahnstein, Prof. Dr. Karl-Heinz Friedl. Corresponding author: Prof. Dr. Karl-Heinz Friedl

In recent years the ambition to combine the ample and quick handling of conventional cements with the good adhesion of classic composite resin cements – which is achieved with etch and rinse- or self-stirring adhesive systems – led to the development of self-adhesive composite resin cements. A survey of current literature on these self-adhesive systems showed that no sufficient data are available from prospective clinical studies on the products that are available on the market, but both in vitro trials as well as clinical experience in practice do suggest this to be a very promising product group (Rodats et al., J. Adhes Dent 2009).

With the introduction of CLEARFIL™ SA CEMENT, Kuraray is especially aiming to solve the problems that still exist in this product group, e.g. a uniform and high bond strength to both enamel and dentin, and easy handling and removal of excess cement. CLEARFIL™ SA CEMENT is a self-adhesive, dual-curing composite resin cement for the cementation of indirect restorations such as crowns and bridges, but also inlays and onlays made of metal, ceramic, and composite, as well as root canal posts. The material releases fluoride ions to the surrounding hard tooth substances.

CLEARFIL™ SA CEMENT is available in a ready-to-use syringe that contains both the pastes A and B in two separate chambers. By applying pressure to the plunger of the syringe, both pastes are mixed in a mixing tip and thus activated. The self-adhesive cement is available in the color shades Universal A2 and White. In order to facilitate the insertion of the material into the canal (for post cementing purposes), the system also possesses a special additional tip, a so-called “Post Tip.”

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As CLEARFIL™ SA CEMENT is a dual-curing cement, thus two different ways of curing are possible. In the case of self-curing, the practitioner has to wait for approx. 3–5 minutes after placing the restoration before removal of excess material. However, as the material also possesses a light-curing mechanism, the initial curing process can be speeded up considerably by task-curing the excess cement for 2–5 seconds.

CLEARFIL™ SA CEMENT for the cementation of two crowns made of Li-disilicate

The 50 year old female patient received crowns made of Li-disilicate on teeth 36 and 37. In this case CLEARFIL™ SA CEMENT was used in self-curing mode.

A recommendation

In general, before the cementation procedure, it must be noted that for fixing the temporary restorations, as well as for precipitously curing the self-curing cement, the cementation technique of the respective materials has to be followed. Further, in self-curing cementation, the practitioner should be aware that the initial curing with visible light is necessary to ensure full bond strength. The remaining excess cement can be removed after 24 hours, and the remaining cement can be removed with a scalpel.

Incomparable: easy removal and perfect clean-up

This helps to clean-up the excess cement very quick and easy. In both cases, the material can be easily removed from the margins of the restoration. After cleaning up, the material should be left to cure for a further 1–2 minutes. The versatility and easy application of CLEARFIL™ SA CEMENT with different ceramics, but also with gold alloys, shall be depicted in the following on the basis of several case-demonstrations.

CLEARFIL™ SA CEMENT for the cementation of a metal crown

The 28 year old female patient received a gold crown on tooth 46. In this case CLEARFIL™ SA CEMENT was used in self-curing mode. After cementation, conventional silcia-based ceramics should be sandblasted with an aluminum oxide roll, etc. Before cementation, conventional silcia-based ceramics should be sandblasted with a silica blast. Whenever, a silica primer (e.g. Aplicap™, Tokyo Medical and Dental University, Japan) is available in the system, it should be used. Before placing the cement, all remaining excess cement, in other words sandblasting particles that still exist in this product group, e.g. a uniform and high bond strength to both enamel and dentin, and easy handling and removal of excess cement. CLEARFIL™ SA CEMENT is a self-adhesive, dual-curing composite resin cement for the cementation of indirect restorations such as crowns and bridges, but also inlays and onlays made of metal, ceramic, and composite, as well as root canal posts. The material releases fluoride ions to the surrounding hard tooth substances.

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