

Sagen Balance

Light-cured composite

Instruction for use

Appointment

Light-cured composite Sagen Balance is intended for use at restoration of any cavities of teeth by a direct method of any aesthetic complexity, also material can be used in making of frame and frameless designs.

General Information

All Sagen materials are based on high-quality raw materials from Germany and the USA.

Sagen Balance composite is a modern nanohybrid light-curing X-ray contrast composite made of high-strength polymer matrix based on Bis-GMA, other traditional monomers and dental ultrafine filler, which has a special multilevel distribution formula for particle sizes from 0.7 to 0.02. The total filler content is 76%. Sagen Balance cured by blue light in the wavelength range 400-500 nm, the depth of curing is 4-8mm depending on the shade at a luminous flux of 1000MW / cm². The material combines low stickiness, high strength and aesthetic capabilities. Sagen Balance has a color on the standard VITA scale and has a three-level transparency to simulate dentin, enamel and the cutting edge of the tooth, available shades: DA1, DA2, DA3, DA3.5, DA4, EA1, EA2, EA3, EA3.5, EA4, EB1, EB2, EB3, EC2, EC3, ED2, ED3, EX-White (extra-white), ET1, ET2, ET3. There are also high opaque shades of: OA2, OA3, OA3.5

Color selection

To choose the color, use the standard VITA scale after machining and cleaning the tooth surface.

Protection of living tooth tissues

If you decide to install a gasket, it is recommended to use a flow light-cured composite Sagen D-Liner. It is made on the basis of glass ionomer powder with a high content of fluorine ions. Its colorless and transparent. The material is easily applied to the bottom of the carious cavity. The method of application of the Sagen D-Liner composite is standard for this kind of materials. The main recommendation of application is the application of the material on a cleaned dry surface without prior etching or with minimal gentle etching for not more than 10s, followed by curing of the material with light for 20s.

Etching

It is recommended to use Sagen Etching Gel to etch the required area of the tooth. Sagen Etchin Gel is made on the basis of 37% H₃PO₄ and various thickeners, has a comfortable consistency, blue color, easily washed off any surface, does not dry out. The application is traditional

Application of light-cured adhesive Sagen Forbond

Sagen ForBond is a 5th generation light-cured prime bond adhesive that requires etching of the tooth surface. The bond consists of Bis-GMA, special hydrophilic and hydrophobic monomers, adhesives, ethyl alcohol. Sagen Forbond is applied on a dry and slightly wet etched surface. Sagen Forbond is applied in one layer and must be carefully distributed and dried with a stream of clean and dry air. Curing time 20s. The Sagen Forbond adhesive has an intense yellow color before curing, after curing the adhesive film becomes completely colorless and transparent.

Application of Sagen Balance

Before use, a portion of the composite is removed from the tube. A stopper protrusion is provided along the line of the outlet of the tube to prevent the release of material from the surface of the modeling tool. The material is applied and cured layer-by-layer. The use of the composite is traditional. The thickness of each layer should not exceed 2 mm, the curing time of each portion is 20s. To restore the cavities penetrating into the dentin, the principle of layer-by-layer application and curing of shades of material of different transparency is used - for dentin (red marking on tube D...), enamel (green marking on tube E...), cutting edge (blue marking on tube ET...). In the case of a cavity within the enamel layer, it is enough to use one of the enamel materials to restore it. Additional effective materials for tooth restoration are: light-cured flowable composite Sagen Flow and Sagen Intensive. Sagen Flow belongs to the microhybrid materials, has optimal liquid-fluid properties, has high wear resistance, polishability and transparency. Sagen Intensive has opaque and non-opaque shades that allow you to color the composite material, as well as effectively mask the discolored parts of the tooth and the surface of any reinforcing structures.

Curing, machining and polishing

Curing of Sagen materials is carried out by devices that emit blue light in the wavelength range of 400-500 nm with a luminous flux of at least 900 mW / cm². Special attention should be paid to controlling the amount of heat in the light beam of the polymerizer. If the beam is "hot", such device should never be used on living tooth tissues, as this can lead to hypersensitivity of patient and burns of tooth tissues. To check, direct a beam to the skin between the thumb and forefinger on the outside of the palm. If there is pain, the appliance must not be used. Finishing curing must be 40s after machining and polishing the seal. For

machining and polishing, the use of any metal cutting tools, polishing discs, silicone heads and finishing polishing pastes is allowed. It should always be remembered that a poorly polished surface can further lead to discoloration of the seal.

Storage

Shelf life of composite Sagen Balance at a temperature of 20C - 270C - 5 years. When working with it, it is necessary to immediately close the tube with a cap after each portion. It is undesirable for direct sunlight to fall on the extracted material at any stage of preparation for its use. This can lead to its premature curing. The shelf life indicated on the label coincides with the batch number.

Release form:

1tube x 4g (colors: DA1, DA2, DA3, DA3.5, DA4, EA1, EA2, EA3, EA3.5, EA4, EB1, EB2, EB3, EC2, EC3, ED2, ED3, EX-White (extra- white), ET1, ET2, ET3, OA2, OA3, OA3.5)

Start set of light-cured composite Sagen Balance:

Sagen Balance 5 tubes x 4g from the list of colors

Sagen Forbond 1bottle x 5ml

Sagen Etchin Gel 1syr x 5ml

Standard set of light-cured composite Sagen Balance:

Sagen Balance 9tubes x 4g from the list of colors

Sagen Forbond 1but x 5ml

Sagen Etchin Gel 1syr x 5ml

Sagen Flow 1tube x 2g

Sagen D-Liner 1tube x 1.2ml



Certificate of Conformity:

№ R3M 804 021 B1

ISO 13485; ISO 4049

TU U 32.5-25282979-001:2019



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