

Sagen Flow

Light-cured flowable composite

Instruction for use

Appointment

Light-cured flowable composite Sagen Flow is intended for use as the main or auxiliary material at restoration of any cavities of teeth by a direct method of any aesthetic complexity, also material can be used in orthopedic stomatology at making of frame and frameless designs.

General Information

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

Sagen Flow is a modern flowable microhybrid restorative light-cured low-fluidity contrast X-ray composite made of a high-strength polymer matrix based on Bis-GMA, other oligomers and a finely divided dental filler with an average particle size of 0.7 μm . The total filler content is 63%. Sagen Flow material cured under blue light in the wavelength range of 400-500 nm, the depth of curing is 4-8 mm depending on the shade at a luminous flux of 1000 MW / cm^2 . The material combines a high level of comfortability, strength and aesthetic capabilities. Sagen Flow material 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, EB2, EB3, EX-White (extra-white), ET1, ET2, ET3. There are also high opaque shades: OA2, OA3, OA3.5.

Color selection

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

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% H_3PO_4 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 Flow

Application of Sagen Flow material is standard for this kind of materials. The material is applied to the surface through a nozzle. The thickness of each layer should not exceed 2 mm, the curing time of each portion is 20s. To restore the cavities penetrating 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 the tube), enamel (green marking on the tube), cutting edge (blue marking on the tube). In the case of a cavity within the enamel layer, it is enough to use one of the enamel materials to restore it. Sagen Flow can also be used as an additional material when filling with Sagen Balance composite as a first, finishing or complementary layer.

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 / cm^2 . Warning! Particular attention should be paid to controlling the amount of heat in the light beam of the polymerizer. If the beam is "hot", such a device should never be used on living tooth tissues, as this can lead to hypersensitivity in the patient and burns of tooth tissues. To check, apply 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 irradiation with light must be carried out within 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 Sagen Flow at a temperature of 2⁰C - 27⁰C - 5 years. When working with it, it is necessary to immediately close the syringe 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:

1syr x 2g (colors: DA1, DA2, DA3, DA3.5, DA4, EA1, EA2, EA3, EA3.5, EA4, EB2, EB3, EX-White (extra white), ET1, ET2, ET3, OA2 , OA3, OA3.5)

1syr x 2g in standard set of composite Sagen Balance



Certificate of Conformity:
№ R3M 804 021 B1
ISO 13485; ISO 4049
TU U 32.5-25282979-001:2019



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