

DENTIS

glass ionomer

COMPOSITION

Glass filler, Dioxide silicone, Fluorinated aluminium, Strontium carbon dioxide, Metaphosphate aluminium, Boric acid, Poliacrylic acid, Tartaric acid, Orthophosphoric acid, Iron oxide pigments

PROPERTIES

DENTIS radiopaque glass ionomer is produced in 3 VITA shades: A3, B2, C4.

It is produced in two variants: "DENTIS" and "DENTIS ART"

"DENTIS" powder is a mixture of aluminum-fluorine-silicate glass and poly-acrylic acid. After being mixed with distilled water it forms a fast setting mass. "DENTIS" has polymerization time is not more than 6 min, "DENTIS ART" – not more than 5 min, compression strength is not less than 130 MPa. The material is self-adhesive to teeth tissues and has anti-caries affect.

PURPOSE

The material is designed for:

- restoration of teeth cavities of III, V classes;
- making lining while working with composite materials and amalgam;
- filling cavities of class I and II in primary teeth;
- temporary filling;
- ART technique (only "DENTIS ART")

CLINICAL PROCEDURE

DENTIS is biologically highly compatible with teeth tissues. But when filling deep cavities, it is not recommended to cover with the liner the surface of dentin located closely to the pulp. This surface of dentin should be covered with calcium hydroxide liner. Other surfaces of dentin should be left uncovered to provide adhesion with Dentis material.

Before starting, fill the dropping bottle with distilled water and shake the vial with the powder a few times. The powder is measured with special spoon (fill it to the brims), excess powder is removed with spatula. The material is mixed up on mixing pad or on glass at the temperature of 23°C.

DENTIS may be used in two consistencies:

Watery consistence – for laying an isolating liner (1 spoon of powder (0.08 g) + 1 drop of distilled water (0.02 g)). The powder is mixed with water in one go. Rub the mixture with spatula until it becomes uniform. The powder should be completely mixed with water in 15 seconds. Working time of the watery consistence material is 2 minutes, curing time is 4-6 minutes.

Thick consistence – for filling (2 spoons of powder (0.16 g) + 1 drop of distilled water (0.02 g)).

At first half of the powder is being mixed with water, then the rest of the powder is being added. Rub the mixture with spatula until it becomes uniform. Mixing time is 30 seconds; working time is 1 minute 50 seconds; curing time is 3-6 minutes.

Inserting material into cavity

Prepare the cavity in the traditional method. The cavity walls should be clean and dry. Process the cavity with the conditioner liquid for 15-20 seconds, then rinse with water and dry with air, avoid overdrying. Conditioner liquid is inserted with brush or cotton ball.

CAUTION! During sealing and curing the material should not contact with water or blood.

To form an isolating liner, lay the watery consistence material on dentin surface with a plugger having small ball at the top. In 6 minutes the watery consistence material hardens and becomes acid and water resistant, which allows to start restoration with a composite filling material.

Insert the thick consistence material into the cavity, with a force, using a matrix. Hold the matrix for about 6 minutes. After taking it off, remove the excess material with a drill and finish restoration with discs or strips, do not use water. Finishing and polishing of the filling is better to be done in 24 hours, but if it is done in 7 minutes after filling, put vaseline on the tool and do not use water.

CONTRAINDICATION

Direct covering of the pulp

POSSIBLE SIDE EFFECT

In rare cases the prepared cement mixture may cause allergic reaction

PRECAUTIONARY MEASURES

Avoid contacting the material with eyes, skin, mucous membrane and clothes. In case of contact with these flush immediately with water. In case of contact with eyes, flush immediately with water and get medical attention. Swallowing of non-polymerized material must be avoided

TRANSPORTATION

The material may be transported by all types of covered transport vehicles in accordance with rules of transportation for each type of transport. It may be transported via post, by cars and in containers. Temperature during transportation should be within +5-25°C

STORAGE

The material should be stored at temperature +5-25°C in a dry place. Upon completion the vial with the powder should be tightly closed, protected from moisture. Penetration of moisture worsens the properties of material and may spoil it completely.

PRODUCER GUARANTEE

The producer guarantees correspondence of material to all technical requirements on condition of observing all rules of utilization, transportation and storage

SHELF LIFE

Shelf life of the material is 2 years when stored at temperature +5-25°C. Do not use after expiration of shelf life.

PLACES OF USE

For use in hospitals, dentistry clinics and mobile medical complexes.

DISPOSAL

Disposal of material with expired shelf life or which became unfit for other reasons, should be made through collection of material into container with subsequent removal by a specialized agent.

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