

CEMFIL universal glass ionomer

COMPOSITION

Glass filler, Fluorinated aluminium, Polyacrylic acid, Tartaric acid, Orthophosphoric acid, Pigments, Distilled water

PURPOSE

Glass ionomer "CEMFIL" is intended to:

- restore teeth cavities of III - V classes for adults and children;
- restore non-carious decayed tooth tissue defects;
- restore class I-II cavities of primary teeth;
- temporary filling;
- placing gasket while working with composite filling materials.

PROPERTIES

"CEMFIL" consists of powder (aluminum-fluorine-silicate radiopaque glass with additives) and liquid (polyacrylic acid water solution). The material is biocompatible, radiopaque, has good adhesion to the tooth and anti-carious effect, radiopaque.

"CEMFIL" is produced in the following VITA shades: A2, A3, B1, B2

CLINICAL PROCEDURE

When sealing deep cavities with CEMFIL, the surface of dentin located closely to the pulp should be covered with calcium hydroxide liner. Other surfaces of dentin should be left uncovered to provide chemical adhesion with the material.

Before starting 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 a spatula. The material is mixed up on a mix pad at temperature of 23°C.

CEMFIL may be used in two consistencies:

Watery consistence – for laying an isolating liner

1 spoon of the powder (0,08 g) + 1 drop of liquid (0,05 g).

The powder is being mixed with the liquid in one step. Stir the mixture with spatula until it becomes uniform. Mixing time: 15 seconds. Working time: 2 minutes 30 seconds. Setting time: from 2 to 6 minutes.

Thick consistence – for sealing

3 spoons of the powder (0,23 g) + 2 drops of liquid (0,1 g).

At first half of the powder is mixed with the whole of liquid quantity, then the rest of the powder is being added.

Stir the mixture with spatula until it becomes uniform. Mixing time: 30 seconds. Working time: about 2 minutes. Setting time: from 2 to 6 minutes.

PLACING THE MATERIAL

Prepare the cavity in a traditional method. The cavity should be clean and dry, but not overdried.

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 material hardens and becomes acid and water resistant, so it is possible to start restoration with a composite material.

Insert the thick consistence material into the cavity, using a matrix, and 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, but 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 sealing, put vaseline on the instrument 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. In case of contact with eyes, flush immediately with water and get medical attention for eyes.

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.

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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