

CHEMFIL

universal glass ionomer

COMPOSITION

Glass GM 35429, Dioxide silicone, Fluorinated aluminium Strontium carbon dioxide, Metaphosphate aluminium, Boric acid, Poly-acrylic acid, Tartaric acid, Orthophosphoric acid, Iron oxide pigments

PURPOSE

Glass ionomer CHEMFIL is designed for:

- restoration of teeth cavities of III, V classes;
- filling cavities of class I and II in primary teeth;
- making linings while working with composite materials and amalgam;
- temporary filling;
- fissure sealing

PROPERTIES

CHEMFIL is filling material representing a mixture of aluminum-fluorine-silicate glass and poly-acrylic acid. After being mixed with distilled water it forms a fast setting filling material having chemical adhesion to dentin and enamel of the tooth.

The cement powder must not have external additions, the color should be uniform. The color of polymerized material should correspond to respective VITA shade. The compression strength should be not less than 130 MPa. The cement is radiopaque.

CLINICAL PROCEDURE

CHEMFIL is high-compatible with tooth tissues, but when sealing 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 chemical adhesion with CHEMFIL 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 a spatula. The material is mixed up on a mix pad at the temperature of 23°C.

The proportion: for filling – 0.7 g of powder and 0.09 g of distilled water;

for lining - 0.7 g of powder and 0.18 g of distilled water (1 spoon contains 0.08 g of powder and 1 drop from the vial contains 0.02 g of water)

Before mixing, divide the powder in two halves. The first half of the powder is being mixed with full portion of water during 5 seconds, then the rest of the powder is being added and stir the mixture thoroughly. Mixing time is 30 seconds; working time from the start of mixing is at least 1 minute 30 seconds. Temperature above 23°C shortens working time. Curing time is not more than 4 minutes.

PLACING THE MATERIAL INTO CAVITY

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

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

Insert the material into cavity with strength, using a matrix, and hold the matrix for at least 4 minutes. After taking it off, remove the excess material with a drill. 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, 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 $+(5-24)^{\circ}\text{C}$

STORAGE

The material should be stored at temperature $+(5-24)^{\circ}\text{C}$ 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 $+(5-24)^{\circ}\text{C}$. 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.

Producer: “Stomadent LLC”

11 Garshina Street, Tomilino, Moscow region, 140070 Russia

Tel. (+7-495) 514-93-47, 514-93-13 Tel/fax. (+7-495) 514-93-46

E-mail: info@stomadent.ru

www.stomadent.ru