

## **GlassIn Base**

### **Lining cement of chemical cure for using in combination with composite materials and amalgam**

#### **Indications**

"GlassIn Base" is a glass polyalkenate lining cement self-curing, it is used as a liner when filling with composites and amalgams. With deep caries it is used in combination with calcium hydroxide liner.

#### **Composition and properties**

The powder is fine dispersed aluminum-calcium-lanthanum-fluor-silicon glass with radiopaque additives. The liquid is an aqueous solution of polyacrylic acid (with special molecular weight) with organic additives which improve its properties. System "powder+liquid" is characterized by the fact that after the formation of the cement structure, all the particles remain bound that further prevents them leaching from cement. "Glassin Base" has a high biocompatibility with the tissues of the tooth and has a chemical adhesion to dentin and enamel. Anticaries effect provided by the sustained release of fluoride ions. When filling the deep cavities where the thickness of residual dentine less than 1 mm, it is recommended to cover the cavity of the protective layer of calcium hydroxide liner. The rest of the dentine surface is left open to allow chemical bonding of cement to dentin.

#### **Recommended use**

Proceed with mechanical treatment in a usual manner, wash and dry the cavity. Prepare the material at room temperature on a glass plate or a special pad with a spatula. Cement may be applied in two consistencies: fluid and dense.

Fluid consistence is for isolating liners: mix 1 spoon of powder with 1 drop of liquid. Dense consistence is for the base linings: mix 2 spoons of powder with 1 drop of liquid. The proposed ratio of powder to liquid is approximate, and in each case the proportion should be determined independently for obtaining the required consistency of paste.

In the beginning the full amount of the liquid is mixed with half amount of the powder. The remaining powder is introduced by small portions until we have a homogeneous mixture with a glossy surface. Mixing is carried out within 60 seconds until obtaining the necessary consistency of a paste. Working time of the prepared material is from 1,5 to 2 min. Material is introduced into the prepared cavity using plugger or spatula and spread evenly, covering the entire area of dentine. Total time of hardening is 5 min from the start of mixing. After that time you are ready for further manipulation associated with the applying of composite or other materials.

#### **Package contents and storage**

Available in bottles: 10 g of powder and 8 g of liquid.

Keep the material in cool dry place with bottles tightly closed. Recommended temperature is from +4°C to +25°C.

Shelf life is 3 years.