

LATEFIL®

Universal microhybrid self cure composite

Prescription

LATEFIL used in dental practice for filling teeth with caries lesion of all classes by Black, for reconstruction of anatomic form and eliminate aesthetic defects of dentition.

Characteristic

LATEFIL belongs to the group of micro-hybrid composite of chemical curing. Working time of composition after mixing of main and the catalyst paste in a ratio of 1:1 (by volume) at room temperature is 1.5-3 minutes. The duration of curing of the seal at oral cavity (30-32° C) 1-3 minutes after placing the material in a filling tooth.

LATEFIL issued of the following colors on the scale of Vita: A2, A3, A3.5, B1, C2, D3, OA2 and OA3.

Seals from **LATEFIL** characterized by low water absorption, high hardness, color stability and radio-opacity. Thanks to the increased transparency and excellent polish ability **LATEFIL** suitable for the restoration of the front teeth.

Composition

1 gr. of Latefil contains:

2,2-bis-[4-(2-hydroxy-3-methacryloyloxy-propoxy) phenyl] propane, Bis-GMA - 0.09 g;
urethane dimethacrylate (UDMA) - 0.06 g;
triethylene glycol dimethacrylate, TEGDMA - 0.05 g;

silanized very fine-grained barium-aluminium-borosilicate glass - 0.77 g;
Silica pyrogenic - g 0.02

Technical characteristics of the filler:

- Average particle size - 0.7 microns;
- Maximum particle size - 3.0 microns;
- Filler content - 64.0% vol.

Method of application:

Selection of color of filling material

Color selection making after cleaning enamel from plaque by mild abrasive (pumice, chalk), comparing the patient's tooth with a sample of

Vita colors or from the system kit **LATEFIL** (better with natural light). During the treatment tooth should be wet.

Prepare of caries cavity

The tooth is isolated from saliva with cofferdam or by cotton swab. Caries cavities treated by well-known for composite method with some modifications: finishing of enamel edges make at an angle to the vertical (30-45) ° about half of her thickness, the perform of inverse cone and other elements for mechanical retention of the seal is not required. After processing cavity is thoroughly washed and dried with clean compressed air. In the case of little thickness of ride of pulp chamber depends from the evidence use the inlay in base of calcium hydroxide Replex-SC and/or isolate inlay from glass ionomer or polycarboxylate cement.

Attention! Not use inlay which containing eugenolum.

Prepares cavity must be clean and dry.

Etching of enamel and dentin.

For a more complete cleaning of the enamel and dentin and the creation of active micro-relief under the application of the adhesive is carried out processing sealable surfaces 37% phosphate gel.

For this required amount of gel is extruded from the syringe through the cannula into the cuvette or glass and then by brush applied on the enamel and after 15 seconds to the dentin. In some cases the gel may be applied directly from the cannula to the surface of the tooth. Exposure of gel on the enamel should be 30 sec., on dentin 15sec.

After the processing time etching gel thoroughly wash during 10-15 s with a water jet under pressure and dried with clean compressed air 10-15sec to a slightly moistened condition of dentin and enamel. With the increased resistance of enamel must be etching need to repeat (no more than 30 seconds).

The cannula after that have to be washed with

water by syringe and after direct application also disinfected.

Applying adhesive

By one drop of main and catalyst adhesive liquid placed in cuvette and rapidly for 10-12sec. mixing of with a modeling knife. Ready adhesive immediately applied by micro applicator to the etched surface of the tooth and ride of caries cavity "rubbing" movement for 10-20 seconds, then purged with compressed air 10-15sec. Filling material may be applied to the cavity immediately after drying without waiting for final curing of the adhesive. The cuvette and modeling knife should be cleaned, before cured of adhesive, with alcohol.

Mixing of filling material

In a mixing pad extruded from a syringe equal volume of main and catalyst pastes. Pastes are mixed thoroughly with a modeling knife about 20-30 seconds to obtain a homogeneous mass which are suitable for filling within 1.5-2 minutes.

Note that the working time and curing time of the material vary from the room temperature, duration and quality of mixing of pastes.

To shorten the curing period of the seals possible increase the dosage of catalyst paste, to increase working time-main. It should be remembered that the color of the seal will match the coloring pastes in ratio 1:1.

Filling

The material introduced into a caries cavity by portions. The first, smaller portion put into the corners and roughness to avoid air voids in a filling cavity. Then by the second portion filled all cavity. The high quality of the seal from **LATEFIL** gutted by hardening of material under the polymer strip.

The use of matrix strips prescribed in the formation of the seal circuit and for interdental separation. Remove strip advisable after 3-4 minutes after curing of the seal. Surplus material from the gingival margin should be removed prior before curing or after the final hardening of seals.

Processing seals

After 5 minutes after curing the seals can begin to process it. The excess of material is removed by fine-grained corundum or diamond head, then gently sanded disks and silicone heads, followed by polishing with diamond paste **Diapol-1.5** or **Diapol-1.10** to a

high gloss.

Recommendations

After selecting the portion of the material from the syringe scroll screw a few turns counter-clockwise, thereby eliminating the possibility of spontaneous extrusion of paste. Obey belonging of the caps of catalyst and main paste on the syringes, as well as bottles with liquid of adhesive.

Do not use metal instruments for extracting paste from a syringe.

In long period of storage of etching gel may be his thickening. To obtain the desired consistency squeeze the gel on the glass and mix it a bit.

To save working time and curing time of pasta, maintaining her color is not recommended to leave open package of material on the desktop at high temperature in the room and the bright daylight or artificial light.

Storage conditions and labeling

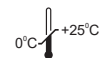
Storage conditions

LATEFIL ain packaged form should be stored in closed, cool place, protected from atmospheric precipitation and direct sunlight, at a distance 1 meter from heaters.

To increase the shelf life of the material should be stored in a refrigerator at a temperature of + 5C. Before working set must withstand **LATEFIL** 2 - 3 h at room temperature to recover the ductility of the composite pastes.

Labeling

The ☞ symbol on the package show expire date.



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