

LATELUX[®] MS

Condensable light cure restorative composite

Prescription

LATELUX MS used in therapeutic dentistry for:

- filling of caries cavities of I and II by Black;
- restoration (in the presence of cosmetic indications) of the cutting edge of the front teeth with pathological abrasion and bruxism;
- build a stump with micro prosthetics;
- creating of inlays by direct and indirect method;
- create high-opaque layer for cosmetic restoration.

Characteristic

LATELUX MS belongs to the group of micro-hybrid composites cured upon exposure of light with wavelength 400 - 500 nm. Depth of curing by lamp illumination 75W for 40 seconds is 3.5-6 mm.

Pastes LATELUX MS is a highly filled polymer compositions. The filler content is 82.1% by weight (68.8% by volume), making the material tougher. During the work the material may seem "dry", but when exposed to him condensation movement of the plugger it become plasticity. The material has good transparency (except for opaque shades), does not stick to the instrument.

LATELUX MS has reduced shrinkage-about 1.9-1.95volume%.

In the kit of shades pastes LATELUX MS used the most common shades on a scale Vita Classic: A1, A2, A3, A3.5, B1, B2, C2 and opaque: OA2, OA3, OB2.

Seals from LATELUX MS characterized radiopacity, high hardness, color stability, natural fluorescence, low water absorption and good polishing characteristic.

Input to the system kit of LATELUX MS one-component light-curing dentin-enamel adhesive *Monotex* provides reliable adhesive bond with cushioning cement, phosphoric acid etched enamel and dentin. In the last case not requires the use of a special primer dentin.

Method of application:

Selection color of filling material

Before the selection of the color the teeth are cleaned from soft plaque. During the treatment tooth should be wet. The color of filling material is selected in natural light before preparing caries cavity, best by comparing the tooth color with the sample color Vita Classic or original colors LATELUX. Available in system kits LATELUX MS color samples cured pastes precisely match the color of the relevant contents of the syringe. They are used to select the color when filling in the enamel zone.

Prepare caries cavity

The tooth is isolated from saliva by cofferdam or cotton swab. Cavities treated by the conventional method for composites with some modifications: finishing of enamel edges arranged to angle to the vertical 30 - 45° it is about half of her thickness, the performance of an inverted cone and other elements for the mechanical retention of the seal is not required. After the end of processing cavity is thoroughly washed and dried with clean compressed air. In the case of deep caries to the bottom of cavity, depends from prescription, is applied inlay in the base of calcium hydroxide and/ or isolate inlay from glass-ionomer, polycarboxylate cement or resin cement.

Attention! It is not allowed to use inlays containing eugenolum.

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 quantity of gel is extruded from the syringe through the cannula into the cuvette or glass, and then by brush applied first to the enamel and after 15 seconds to the dentin. In some cases the gel may be applied

directly to the tooth surface through cannula. Exposure of gel on the enamel should be 30sec., and at the dentin - 15sec.

After end of the work the etching gel thoroughly wash during 10-15sec. with a water jet under pressure and dried during 15 sec. by clean compressed air to a slightly moistened condition of dentin and enamel tarnishing. With the increased resistance of enamel etching must be repeat (no more than 30 seconds). The cannula have to be washed with water after use with a syringe.

Applying adhesive

For approximal cavities put polymer matrix strip and wedges. A drop of adhesive Monotex squeezed onto the applicator and is applied to the ride and the edge of the cavity with a thin continuous layer. Before applying the adhesive processed cavity must be visually dry, it allowed a slight moistening of dentin by natural seepage dentinal fluid. During 10-15sec.adhesive is rubbed into the ride of cavity and then dried with compressed air for 10-15sec. Monotex applied in one layer without subsequent photo polymerization.

Filling

In deep cavities of class I and II before put LATELUX MS is recommended to apply one coat of flowable composite LATELUX *flow* according to the instructions on the use of this material.

For get the best marginal adaptation is recommended to wet the instrument with a thin coat of adhesive. In this case the adhesive acts as a "modeling" liquid. The adhesive is pre-applied to the cuvette to evaporate the solvent for 2-3 minutes. Any kind of filling must be performed at least in two layers. The thickness of each layer (1,5-2) mm. Before remove the material from the syringe it must first be lightly mash right in the syringe. After introducing the material into the cavity to solidify it recommended condensing tool movements with a large diameter as a small diameter leads to the formation of craters and making the material porous. After the first coat carried photo polymerization 15-20sec., subsequent layers cured during 40-45sec.

Restoration of the crown (micro prosthetics)

From opaque paste layers simulate the body of the tooth, polymerizing sequentially each layer. After this continuing the formation of the

crown using translucent pastes shades, mainly its buccal surface. When applying the paste layers are not allowed to use mechanical methods of processing before applying the next layer in order to avoid reducing the interlinear adhesion. Simulate by plugger-burnisher should be only uncured paste. After final curing of crown and restoration circuit topography adjusted mechanically, as described below.

Finishing restoration

The mechanical grinding and polishing of sealers, restored crowns in the customary manner for composite materials no earlier than 5 minutes after light curing diamond and corundum heads, avoiding heating of the material. Fine grinding is performed using silicone disks and then finally polished with paste.

Recommendations

After working with the composite paste syringes should not be left open.

In the case of long storage it may happen solidification of etching gel. For get necessary consistency gel need to be putted to the glass and mix a bit.

Before using the adhesive in the bottle must be shaken.

Condition of storage and Labeling

Condition of storage

LATELUX MS in packaged form should be stored in closed, cool place at a temperature not higher than + 25 °C, protected from atmospheric precipitation and direct sunlight, at a distance of at least 1 meter from heaters. To increase the shelf life prolonged storage it is recommended to use a refrigerator at + 5 °C. Before working set LATELUX MS should be kept 2 - 3 hours at room temperature to recover the ductility of composite pastes.

Labeling

The symbol on the package show expire date.



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