

Dual-cure adhesive for enamel and dentin

PURPOSE

Dual-cure adhesive for enamel and dentin is used for:

- creation of adhesive connection between dual-cure material for buildup of tooth core and dentin
- creation of adhesive connection by fixation of pins inside the root channel
- creation of adhesive connection by constant fixation of prostheses, inlays, onlays, veneers

PROPERTIES

Dual-cure adhesive is designed on the basis of hydrophilic and hydrophobic ethers of methacrylate acid in organic solvents. It is composed of two parts:

- adhesive-main liquid
- adhesive-catalytic liquid

They are mixed at the ratio of 1:1 in a cuvette during 10 seconds Polymerization takes place in the whole mass of material.

Self-cure process: working time – up to 5 minutes, time of self-cure – up to 10 minutes at $+(23\pm 1)^{\circ}\text{C}$.

Time of light cure of the adhesive is 20 seconds with light of 450 - 500 nm having the light density of not less than 600 mw/cm².

CLINICAL PROCEDURE

Buildup of tooth core: After endodontic treatment:

- prepare the cavity, rinse and dry
- etch with the etching gel for not more than 20 seconds. Then wash it for 20 seconds, dry without overdrying

-Then prepare the Dual-cure adhesive: in a cuvette mix 1:1 basic and catalytic liquid. Time of mixing: 10 seconds. Place the adhesive mixture into cavity then dry with air till the liquid movement is stopped and cure with light of 450 - 500 nm during 20 seconds. The treated surface should be shiny, if it is not - the procedure of adhesive treatment should be repeated.

-Insert in the cavity “FlowCor DUO” composite material or another material for buildup of tooth core

Fixation of pins, prostheses, inlays, onlays, veneers: After endodontic treatment:

- prepare the root channel for pin installation, or the cavity for prosthesis installation
- etch with etching gel for not less than 20 seconds, rinse with water for not less than 20 seconds, dry without overdrying.

-Then prepare the Dual-cure adhesive: in a cuvette mix 1:1 basic and catalytic liquid. Time of mixing: 10 seconds. Place the adhesive mixture into cavity then dry with air till the liquid movement is stopped and cure with light of 450 - 500 nm during 20 seconds. The treated surface should be shiny, if it is not - the procedure of adhesive treatment should be repeated.

If the root channel is not exposed to light, after polymerization it is necessary to wait 5 minutes, and after that – to start fixing the pin.

-Then insert in the root channel of in the cavity prepared for prosthesis installation “FlowCor DUO” or “FlowFix Duo” material or another composite material for fixation of pins and prostheses

PRECAUTIONARY MEASURES

Dual-cure adhesive contains urethanes and may cause irritation

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 $+(5\pm 24)^{\circ}\text{C}$

STORAGE

Dual-cure adhesive should be kept in a dry place not exposed to direct sunlight at temperature $+(5\pm 24)^{\circ}\text{C}$.

PRODUCER GUARANTEE

The producer guarantees correspondence of Dual-cure adhesive to all technical requirements on condition of observing all rules of utilization, transportation and storage.

SHELF LIFE

Shelf life of the material in a dry place not exposed to direct sunlight:

- If stored in temperature interval $+(5\pm 12)^{\circ}\text{C}$ – 2 years from production date
- If stored in temperature interval $+(15\pm 24)^{\circ}\text{C}$ – 1 year from production date

Do not use material after expiration of shelf life

PLACES OF USE

For use in hospitals, dentistry clinics and mobile medical complexes.

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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