FlowCor Duo
composite dual-cure flowable material for the restoration of tooth core

COMPOSITION
Urethane-methacrylate, Bisphenol A-glycidyl methacrylate (Bis-GMA), Triethylene glycol dimethacrylate (TGM), Ether ethylenglicol monomethacrylate, Trimethylolpropane trimethacrylate (TMTII), Butylated hydroxydetoluene, Camphorquinone, Trimethacrylate triethanolamine (TMATEA), Benzoyl peroxide, Dihydroxyethyl para-toluidine (DHEPT), Glass Ceramic, Acetic Acid, Fluorinated Natrium, Barium aluminoborosilicate glass, Silane, Pigments

PURPOSE
Flowable dual-cure composite material "FlowCor DUO" is used in therapeutic and orthopedic dentistry for the buildup of tooth core and the fixation of pins.

PROPERTIES.
"FlowCor DUO" composite material has high strength, radiopacity, plasticity and thixotropy, is easy to mix, can easily fill undercuts. The composite material consists of two pastes: catalytic and universal, - which are mixed at the ratio of 1:1, either automatically in the special mixer or by hand on the mixing pad. The material has 2 modes of cure: light-cure with the wavelength of 450 - 500 nm with a device having the light density of not less than 600 mw/cm2 and self-cure (without light exposure) - working time is 3 minutes, time of self-cure not more than 10 minutes.
The set includes **Dual-cure adhesive for enamel and dentin** which consists of basic liquid and catalyst liquid (activator of self-cure process). 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. Time of self-cure of the adhesive – not more than 10 minutes.

CLINICAL PROCEDURE
Buildup of tooth core: After preparing the cavity, it should be rinsed, dried and then etched with the etching gel for not more than 20 seconds. Then wash it for 20 seconds, dry and fix a matrix.
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.
For inserting “FlowCor DUO” composite material in the cavity take off the cap from the dual-chamber syringe, then slightly push the piston for extruding first portion of material (there may be a slight difference in the level of filling of two syringe chambers with material), then put on the tip for mixing and the tip intraoral. Aim the tip into the cavity and slightly push the piston, filling the cavity from bottom to the top, avoiding air getting into the filling. The time of modelling should not exceed 3 minutes. Cure every section of the construction with light for 30 seconds. Correction of the form of tooth core with restorative/rotary instruments may be started in 10 minutes after curing.
If composite material is mixed by hand: take off the cap from the dual-chamber syringe, then slightly push the piston for extruding first portion of material (there may be a slight difference in the level of filling of two syringe chambers with material). Gently pushing the piston place both universal and catalytic pastes on the mixing pad. Mix with a polymer spatula for 20 seconds, and start modeling the tooth core. The time of modeling should not exceed 3 minutes. Cure every section of the construction with light for 30 seconds. Correction of the form of tooth core with restorative/rotary instruments may be started in 10 minutes after curing.
Fixation of pins by “FlowCor DUO” composite material: after endodontic treatment the root channel should be prepared for pin installation, etched with etching gel for not less than 20 seconds, rinsed with water for not less than 20 seconds, dried without overdrying. Then place and cure Dual-cure adhesive for enamel and dentin (see above).
Then insert the mixed “FlowCor DUO” composite material in the prepared cavity with the use of channel filler and accurately place therein the prepared pin, holding it firm to avoid displacement of the pin. Cure with light for not less than 30 seconds. After that start modeling the tooth core, curing every section of the construction with light for 30 seconds.

CONTRAINDICATION
The material contains methacrylates which may cause allergic reaction or high sensitivity by patients, in this case the use of this material must be stopped.

PRECAUTIONARY MEASURES
Etching gel contains orthophosphoric acid. Avoid contact with skin, oral mucosa, eyes and clothes. In case of contact with these, rinse with large amount of water. Contact of uncured material with eyes and skin 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+25°) C

STORAGE.
Syringes with Flowcor Duo material should be kept in a dry place not exposed to direct sunlight at temperature +(5+25°) C.

PRODUCER GUARANTEE
The producer guarantees correspondence of Flowcor Duo material 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+12°) C – 2 years from production date
- If stored in temperature interval +(15+25°) C – 1 year from production date

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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