

FlowRest

Light cured composite flowable filling material

COMPOSITION

Urethane-methacrylate, Bisphenol A-glycidyl methacrylate (Bis-GMA), OKM-2, Butylated hydroxydetoluene, Camphorquinone, Trimethacrylate triethanolamine (TMATEA), Flublau, Acetic acid, Cabosil, Glass filler, Pigments

PROPERTIES

FlowRest is a flowable, light-curing composite material for use in therapeutic dentistry. FlowRest consists of monomer matrix based on methacrylate derivatives and specially processed filler consisting of barium glass and dioxide silicon. The mean particle size is 0.7 μm , the content of filler is 68% by weight. FlowRest is radiopaque and thixotropic. FlowRest hardens with light in the wave length range of 400-500 nm. It is produced in various VITA shades.

INDICATION

FlowRest is designed for Class III, IV and V restorations; small restorations of class I; filling undercuts and putting lower levels of class I and II composite restorations; fissure sealing; repair of composite/ceramic veneers; teeth splintage; fixation of braces.

CLINICAL PROCEDURE

While working with FlowRest it is recommended to use the traditional technique of working with composite materials. Temporary and layer materials should not contain eugenol.

Shade determination

Clean the teeth enamel before determining the shade. For this special paste or pumice may be used. The teeth should be still moist for shade determination. Shade is determined under natural, artificial or if necessary under special light.

Cavity preparation

Appropriate isolation of the cavity, best with a rubber dam or cotton roller, is required.

Prepare the cavity according to the generally accepted principles, with gentle treatment of the tooth tissue. Do not prepare any sharp internal edges or angles, don't treat neck of the tooth if it's caries-free. After that, clean the cavity with water spray and dry it with air, avoid overdrying dentin. Prevent oral fluids, saliva, blood from contacting the prepared cavity.

If the cavity is deep and close to the pulp, cover the areas close to the pulp with a layer of calcium hydroxide, then with a layer of glass ionomer cement.

Conditioning of enamel and dentin

Total etching technique is recommended: enamel is etched for not less than 15 seconds, dentin – from 5 to 15 seconds depending on indications. After etching rinse thoroughly with water for 15-30 seconds. The etched surface should be dried with air, avoiding overdrying. The enamel should have a dull (whitish) appearance. Prevent oral fluids, saliva, blood from contacting the etched and dried surface. In case of contamination, etching should be repeated for 10 seconds.

Application of "Primer-adhesive"

We recommend using "Primer-Adhesive" or similar adhesive materials as the bonding agent. For further information please refer to the instructions for use of these materials.

Placing the filling material

Material of the chosen shade may be placed into the prepared cavity directly from the syringe with the use of disposable needle.

For this remove the tip and put the disposable needle on the syringe. Before applying, make sure that the material flows freely through the needle. Then insert it into the cavity, put a layer of 1-2 mm and distribute it with the corresponding instrument. To prevent flowing out the material from the syringe, return the piston to the initial position.

Use matrix strip to contour the filling holding it till the material hardens.

While restoring deep cavities, FlowRest may be used in deeper layers, whereas in the higher layers it is reasonable to use compatible composite materials like "UniRest".

If FlowRest material is used for repair of composite/ceramic veneers or for fixation of braces, one has to remember that the construction should be transparent enough to allow light-cure of the material.

Curing

Each fragment should be exposed to light of 400-500 nm wavelength during 40 seconds

Finishing

Polishing of the filling may be started after the material hardens. In order to achieve desired form of tooth use finishing diamond or carbide drills with water spray. A smooth surface is obtained using various grits of alu-mo-oxide or silicone discs and strips.

CONTRAINDICATION

FlowRest contains methacrylate monomers. Therefore they should be used with care with patients having increased sensitivity to methacrylate monomers acrylic compounds;

PRECAUTIONARY MEASURES

Don't use FlowRest for purposes not provided by this instruction. Flowrest contains methacrylate monomers and may cause allergic reaction. Don't allow the material to be swallowed.

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

STORAGE

FlowRest should be kept in a dry place not exposed to direct sunlight at temperature $+(5+24)^{\circ}\text{C}$. If stored in refrigerator, before use "FlowRest" should be kept at room temperature for at least 1 hour

SHELF LIFE

Shelf life of FlowRest material is 3 years. Do not use after expiration of shelf life

PRODUCER GUARANTEE

The producer guarantees correspondence of FlowRest material to all technical requirements on condition of observing all rules of utilization, transportation and storage.

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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