

Product

The product belongs to Group 1, Class 2 of Type 1 according to the ISO 4049 classification standards. It is a light-activated restorative composite resin for both anterior and posterior aesthetic restorations. DiaFil Flow is a flowable paste that contains unpolymerized dimethacrylate monomer, inorganic filler, and photo initiators mixture. After polymerizing with a curing light, DiaFil Flow hardens as a final restoration.

Indications for Use

- Restoration of Class III, Class V, smaller Class IV
- Repair of resin, porcelain, and acrylic temporary materials
- Undercut block out

Composition

- Diurethane dimethacrylate / Ethoxylated Bisphenol-A-dimethacrylate / Barium-aluminosilicate / Silicon dioxide / Ytterbium Fluoride
- Inorganic Filler(average particle size of 0.05~2.5µm) Content: about 62%

Performance

- A resin, which hardens by light and can be used for both anterior and posterior restoration
- Excellent Sealing capacity
- Color stability
- Excellent radiation impermeability
- Compressive strength (Mpa) : More than 260
- Flexural strength (Mpa) : More than 80 (ISO 4049)
- Depth of cure (mm) : Transparent : More than 1.5
Opaque: More than 1.0

Method of use**A. Preparation before Use**

- 1) Check the expiration date and the abnormality of the product such as foreign substances and product defects before use
- 2) Familiarize yourself with the instructions from the manufacturer and maintain the methods of use
- 3) Remove the cap and prepare the needed filling tools
- 4) Protect the oral cavity with a rubber dam

B. Directions for use

- 1) Select the shade
Isolate the area to be treated using rubber dam. Wash the area. Select the appropriate shade.
- 2) Treat the cavity
Remove amalgams or bases and foreign substances in the area to be treated that can be intruding during the treatment.
- 3) Pulp protection
If a pulp exposure has occurred, cap the pulp with calcium hydroxide and glass ionomer.
- 4) Treatment of the enamel and the dentine
For pre-treatment, etch the surface first and then apply the adhesive system according to the method of use of the products in use.
- 5) Application
Remove the cap from the syringe and attach a disposable tip to the syringe. Push the plunger to dispense the product. If the tip is blocked or if the material has hardened, attach a new disposable tip. Dispense an adequate amount of material directly on the area to be treated.
* The content may overflow from the remaining pressure in the tube. To prevent this, pull back the plunger a little bit.
- 6) Curing
Place a curing light (recommended: D-Lux+ Cordless Curing Light) as close as possible to the surface of the treated area and cure for 20 seconds vertically. (This product is intended to be cured by exposure to an LED light with a minimum intensity of 400 mW/cm². Increase the amount of curing time when the light intensity of the curing light is below 400mW/cm². If it is 400mW/cm² or higher, reduce the amount of curing time.)

7) Finishing up

After restoring with resin, remove the remaining resin with a flame-shaped finishing bur and contour the shape. Finish up the final grinding using a rubber polishing point and aluminum oxide polishing paste.

C. Storage & Transportation

- 1) Avoid high temperatures and direct sunlight.
- 2) Keep it in a dry and cool place (2°C ~ 27°C).
- 3) Close the cap immediately after use.
- 4) Keep away from children.

Directions on Use**A. Contraindication**

- 1) Do NOT use the product on patients with medical history of hypersensitivity and allergy such as rashes and dermatitis to the product or methacrylate monomers.

B. General Cautions

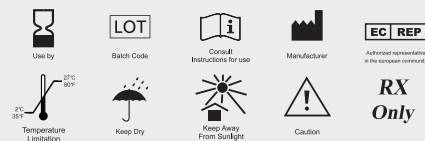
- 1) The product must be used by a dentist or a dental professional, according to the directions of use listed.
- 2) It is prohibited to use the product for reasons other than the intended purpose of use.
- 3) It cannot be prescribed for internal use.

C. Application notes

- 1) Wear respiratory protective wear before treatment.
- 2) Close the cap on the syringe immediately after use.
- 3) Do not use the product past the expiration date.
- 4) Do not mix with other products.
- 5) The unhardened resin can affect susceptible skin depending on the individual. If the product is in contact with the skin, wash off with soap and water.
- 6) The product is to be used for the dental purpose only. Wear protective goggles to prevent it from getting into eyes. If material gets into eyes, wash with running water immediately and seek medical help.
- 7) If a patient shows hypersensitivity such as a rash while using the product, stop using the product and advise the patient to seek medical help.
- 8) It is rare for patients to have sensitivity to the product. In sensitivity occurs, stop using the product and consult with a doctor.

Shelf Life

3 years from the manufacture date when stored according to the directions.

Symbols**Warranty**

DiaDent Group International will replace product that is proven to be defective. DiaDent Group International does not accept liability for any damage or loss, direct or consequential, stemming from the use of or inability to use the product described. Before using, it is the responsibility of the user to determine the suitability of the product for its intended use. The user assumes all risk and liability in connection therewith.

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