



**READ CAREFULLY BEFORE USE**

## **BEAUTIFIL Flow Plus X**

Fluoride Releasing Flowable Restorative Material

### **PRODUCT DESCRIPTION**

BEAUTIFIL Flow Plus X is a light-cured radiopaque restorative material indicated for anterior and posterior restoration including occlusal surfaces. Two different flowabilities, F00 (minimal flow) and F03 (low flow), are available.

### **INDICATIONS FOR USE**

- Anterior and posterior restorations
- Repair of restorations and prostheses

### **PRECAUTIONS AND WARNINGS**

1. Do not use this product on patients with known allergies to this material and/or methacrylate monomer.
2. Operators with known allergies to this material and/or methacrylate monomer must not use this product.
3. If any inflammation or other allergic reactions occur on either the patient or operator, immediately discontinue use and seek medical advice.
4. Use medical (dental) gloves and protective glasses to avoid sensitization to this product. In case of accidental contact with oral soft tissue or skin, immediately blot with alcohol moistened cotton ball, and rinse with plenty of water. Medical (dental) gloves provide some protection against direct contact with this material; however some monomers can penetrate through the gloves very quickly to reach the skin. Therefore, should this material contact even the gloves, immediately remove them and wash hands with plenty of water.
5. In case of contact with eyes, immediately flush the eyes with plenty of water and seek medical advice.
6. Do not re-use needle tips.
7. Follow the instructions for use of each material, instrument or equipment to be used in conjunction with this product.
8. Do not use this product for any purposes other than specifically outlined in these instructions for use.
9. Use this product within the expiration date indicated on the package or container.  
(Example YYYY-MM-DD → Year-Month-Date of the expiration date)



10. This product is intended for use by dental professionals only.

## **DIRECTIONS FOR USE**

### **Preparation**

When storing these materials in a refrigerator, allow them to reach room temperature before use. Attach the needle tip to the syringe as indicated in the figures below.

1. Pull off the shield cap from the syringe while turning it slowly. (Fig. A)
  2. Attach the needle tip by turning it clockwise until it is securely attached. (Fig. B)
  3. Insert the needle tip into the small hole on the head of the shield cap immediately before use to protect the material from ambient light. (Fig. C)
- When replacing the needle tip, always use clean medical (dental) gloves.



Fig. A

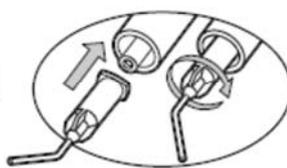


Fig. B

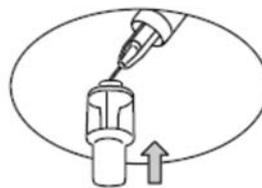


Fig. C

### **A. Anterior and posterior restorations**

#### A-1. Cleaning of tooth surface

Thoroughly clean the tooth surface to remove plaque.

#### A-2. Shade selection

Select appropriate shade using a shade guide while the tooth is still moist.

#### A-3. Cavity preparation

Prepare the cavity following the standard method.

#### A-4. Isolation

Use a rubber dam etc to isolate the treatment area from contamination.

#### A-5. Pulp protection

In the case where the pulp is exposed or the affected area is close to the pulp, cap with calcium hydroxide etc.

- Do not use eugenol containing materials since they might inhibit polymerization or adhesion of the material.

#### A-6. Conditioning and application of adhesive

Apply dental adhesive following the manufacturer's instructions for use.

#### A-7. Filling

Apply necessary amount of BEAUTIFIL Flow Plus X directly into the cavity and create the shape



desired. BEAUTIFIL Flow Plus X may also be extruded onto a paper pad etc to be applied into the cavity with a suitable instrument.

- When the cavity is deep, incremental filling and light curing of the material, in layers not exceeding 2 mm each, is recommended.
- The paste dispensed onto the paper pad should be shielded from ambient light with light-shielding cover to avoid premature polymerization of the material.
- Discard the used needle tip after use and replace the shield cap securely. Needle tips should be used for only one patient and then discarded at the end of the procedure to avoid cross contamination. Do not re-use.
- Disinfect the syringe and shield cap with alcohol after each use to avoid cross-contamination. Then, close the cap securely. Use caution to avoid including alcohol into the paste.

#### A-8. Light-curing

Light-cure with a dental light-curing unit. In cases where the restored area is large, light-cure in segments.

Light-curing unit	Light-curing time
Halogen	20 sec.
LED	10 sec.

\*Halogen light-curing unit

Light source: Halogen, Wavelength: 400-500 nm, Light intensity: 500 mW/cm<sup>2</sup> or more

\*LED light-curing unit

Light source: Blue LED (with a single emission peak), Wavelength: 440-490 nm, Light intensity: 1000 mW/cm<sup>2</sup> or more

- Use a dental light-curing unit having specifications equivalent to those described above.
- Operators must use protective glasses or light shielding plate to avoid direct exposure to curing light. Operators must also protect patients' eyes from direct exposure to curing light.
- Disinfect the light-curing unit with alcohol after each use to avoid cross-contamination.

#### A-9. Finishing and polishing

After light-curing, contour, finish and polish the restoration following the standard method.

### B. Repair of restorations and prostheses

#### B-1. Clean the restoration

Thoroughly clean the restoration to remove plaque.

#### B-2. Shade selection

Select appropriate shade using a shade guide.

#### B-3. Roughing of the restoration

Roughen the surface to be repaired with a dental abrasive (diamond burs etc). Then, rinse with water



and dry.

#### B-4. Isolation

Use a rubber dam etc to isolate the treatment area from contamination.

#### B-5. Pretreatment of the restoration

Pretreat the material to be repaired (composite resin, porcelain, metal or natural tooth) to enhance mechanical and chemical retention.

- Follow the instructions of each pretreatment material for application and procedures of etching, priming and bonding.

#### B-6. Filling, light-curing, finishing and polishing

Follow the procedures from A-7 to A-9 above.

### COMPOSITION

Bis-GMA, TEGDMA, Bis-MPEPP, S-PRG filler based on fluoroboroaluminosilicate glass, Polymerization initiator, Pigments and others

### SHADES

F00: A1, A2, A3, A3.5, A4, B1, B2, C2, D2, A1O, A2O/

SA0.5, SA0.5O, Inc (Incisal), BW (Bleaching white)

F03: A1, A2, A3, A3.5, A4, B1, B2, C2, D2, A2O, A3O/

SA0.5, Inc(Incisal), BW(Bleaching white), CV(Cervical), MI(Milky)

### STORAGE

Store in a dark place at room temperature (1-30 °C/ 34-86 °F). Avoid high temperatures and high humidity. Keep away from direct sunlight and any source of ignition.

*CAUTION: US Federal law restricts this device to sale by or on the order of a dental professional.*

01-201707



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