

	FLOW COMPOSITE DENTAL FILLING	Document Number	KK.08
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	USER MANUAL	Revision Number	04

LIGHT CURED RADIOPAQUE FLOW RESTORATIVE COMPOSITE DENTAL FILLING

1. PRODUCT INFORMATION

Flow composite filling material is a low-viscosity, light-curing, radiopaque restorative material. It is specially designed for small cavity restorations, liner (priming), repair procedures and aesthetic corrections in dentistry.

2. CONTENT

The product composition includes methacrylate resins (UDMA, TEGDMA), inorganic filling materials, glass, silica, photo initiator. Inorganic fillers (65% by weight, 52% by volume)

3. FEATURES & BENEFITS

- **Flow:** With its thin and flow structure, it provides ideal spread in cavities.
- **Ideal Thixotropy:** Allows controlled filler manipulation
- **Radiopacity:** It can be easily detected in x-rays, thus providing ease of diagnosis.
- **Aesthetic Compatibility:** Wide color range that mimics natural tooth color.
- **Long-Lasting Durability:** Strong bonding feature against micro leakage.
- **Easy Application:** Provides ease of use with precision tip injectors.

4. INDICATIONS

- In Class III and Class V restorations.
- As a base material in class I and II cavities.
- In the repair of porcelain or composite restorations.
- As a liner under amalgam and composite fillings.
- Together with tooth surface corrections and pit & fissure sealants.

5. CONTRAINDICATIONS

- Restorations bearing large occlusal load.
- Situations that require application in thick layers.
- Routine under gingival applications. In subgingival restorations, the fluid structure of the material can complicate control and affect marginal adaptation.
- Inadequate insulation and humidity control.
- In patients with sensitivity and allergy to any of the direct pulp capping and product ingredients.

6. APPLICATION INSTRUCTIONS

- Determine the desired color in daylight with the VITA scale.
- In order for the color choice to be correct, the teeth must be clean.
- Prepare the cavity for composite restorations.
- Isolate the tooth from the teeth next to it. Use transparent thin strips.
- The cavity must be clean and dry. Dry dentin surfaces to strengthen bonding.

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- Apply acid and bonding according to the rules.
- Remove the cap of the injector and insert the tip.
- Apply the composite filling to the cavity in a way that is not thicker than 2 mm.
- Do not remove the oxygen inhibition layer between the incremental layers of the composite to optimize the binding strength to each subsequent layer.
- Keep the light cure device as close to the cavity as possible during curing.
- LED light source emitting blue light in a narrow wavelength range between 450-490 nm (1000-1200mW/cm² power), 20 sec. irradiation for each layer, or HALOGEN light source between 380-500 nm (700mW/cm² power) 40 sec. irradiation for each layer is recommended as a photo initiator.
- Take care to ensure that the airway is free of fat and other contaminants.
- After the application is finished, close the lid of the injector to make sure that it will not get air.
- Closing the lid of the product after each use does not change the current expiration date. The product can be used for the specified shelf life.

7. ALERTS

- If any nausea or other allergic reactions occur during administration, discontinue use immediately and seek medical attention.
- Uncured methacrylate resin can cause contact dermatitis and damage to the dental pulp. Avoid contact with skin, eyes and soft tissue. If it comes into contact, clean it thoroughly with water
- If swallowed, drink plenty of water, do not induce vomiting. Consult a doctor immediately.
- Wear personal protective equipment such as disposable masks, gloves and goggles when working with this product.
- Do not use this product for any purpose other than the treatments outlined in the indications section in this user manual.
- Avoid the use of eugenol, eugenol may disrupt the polymerization of the composite or cause discoloration, so zinc oxide should not be used with cement containing eugenol.
- This product is intended for use in dentistry only.
- To avoid cross-contamination between patients, the application tips are disposable for each patient.
- Do not use damaged syringe tubes.
- Retract the plunger after application to prevent unwanted flow of the composite from the tip.
- Protect from visible light before use.

8. PACKAGING

- Flow composite is presented in the form of 2-3-500-1000 g.

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- It is available in 4 different colors as A1–A2–A3–A3,5–.

9. STORAGE CONDITIONS

- The product should be stored in a cool, dry and dark environment.
- Store syringes between 15 and 25 degrees Celsius at a relative humidity of 30% +/-5%.
- Store dry, cool and not exposed to direct sunlight.
- The expiry date is indicated on all packaging. Do not use after the expiration date.
- Shelf life is 3 years.

10. SYMBOLS

	Production Date
	Producer
	Refer to the user manual
	Lot number
	Temperature display
	Attention
	CE Standard
	Protect from sunlight
	Non-sterile mark
	Store in a dry place
	It is disposable
	DEHP Free
	LATEX-Free
	Expiry Date
	Relative humidity display

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11. COMPANY INFORMATION

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