

	KIDS FLOW COMPOSITE DENTAL FILLING	Document Number	KK.08
		RELEASE DATE	10.01.2019
		Revision Date	20.09.2024
	USER MANUAL	Revision Number	04

LIGHT CURED COLORED RESTORATIVE KIDS (CHILDREN) NANOHYBRID FLOW COMPOSITE DENTAL FILLING MATERIAL

1. PRODUCT INFORMATION

The purpose of the production of colored composites is to facilitate the treatment process in dentistry and to make the experiences of patients (especially children) more positive.

Colored nano hybrid flow composite is a filling material that offers high aesthetics, durability and ease of use. Thanks to the combination of micro and nano-sized particles in a hybrid structure, both mechanical properties and aesthetic appearance are optimized. In dentistry, it is ideal for achieving colorful, aesthetic, functional and durable restorations in milk teeth. Optionally, it is also suitable for use in adult patients.

2. CONTENT

- **Resin Matrix:** UDMA, TEGDMA based composite resins
- **Inorganic Fillers:** Nano silica-silaneous glass particles (0.3-3 µm)
- **Filler Ratio:** 65% by weight, 52% by volume
- Photo initiator: Camphorquinone (CQ)
- Color pigments.

3. FEATURES & BENEFITS

- **Reducing Fear of Treatment:** Children are often afraid of dental treatments. Colorful and fun materials are designed to reduce children's fear and make them perceive the treatment as a game.
- **Increasing Motivation:** Since it gives children the opportunity to choose color, they may be more cooperative with the physician during treatment.
- **Visual Difference:** The fact that the colored filling is clearly visible on the tooth facilitates the post-treatment control and follow-up processes. It is easier to remove or replace if necessary.
- **Ideal Mechanical Strength:** Resistance to chewing forces.
- **Long-Term Stability:** Abrasion resistance.
- **Low Polymerization Shrinkage:** Less marginal leakage and long-term stability of tooth-filling fit.
- **Easy Application:** Provides ease of use with precision tip injectors.
- **Fluidity:** With its thin and flow structure, it provides ideal spread in cavities.

4. INDICATIONS

- In the restoration of milk teeth.
- In temporary restorations of permanent teeth.
- Fissure sealant applications.
- Optionally, permanent restorations in permanent teeth.

	KIDS FLOW COMPOSITE DENTAL FILLING	Document Number	KK.08
		RELEASE DATE	10.01.2019
		Revision Date	20.09.2024
	USER MANUAL	Revision Number	04

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

- 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.
- 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 beam 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 practice, 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.
- Wear personal protective equipment such as disposable masks, gloves and goggles when working with this product.
- If swallowed, drink plenty of water, do not induce vomiting. Consult a doctor immediately.

	KIDS FLOW COMPOSITE DENTAL FILLING	Document Number	KK.08
		RELEASE DATE	10.01.2019
		Revision Date	20.09.2024
	USER MANUAL	Revision Number	04

- Do not use this product for any purpose other than the treatments outlined in the indications section in this user manual.
- This product is intended for use in dentistry only.
- 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.
- It may cause discoloration when it comes into contact with cationic mouthwashes or chlorhexidine.
- Clean the application area before use, if it comes into contact with an area you do not want, remove it from the area before polymerization.
- Protect from visible light before use.

8. PACKAGING

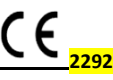
- It is packaged in 2g, 500g and 1000g.
- It is available in Blue, Pink, Purple, Yellow, Green and Orange colors.

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.

 FSM PROFESSIONAL DENTAL PRODUCTION	KIDS FLOW COMPOSITE DENTAL FILLING	Document Number	KK.08
		RELEASE DATE	10.01.2019
	USER MANUAL	Revision Date	20.09.2024
		Revision Number	04

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

11. COMPANY INFORMATION

Manufacturer: FSM DENTAL MEDİKAL MAKİNA SANAYİ VE TİC.LTD.

Address: İvedik OSB Mahallesi 1333. Cadde No:11/2 Yenimahalle/ANKARA,TÜRKİYE

TEL: +90 (312) 336 36 30