

	7TH GENERATION ONE COMPONENT LIGHT CURED ADHESIVE	Document Number	KK.07
		RELEASE DATE	10.01.2019
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	USER MANUAL	Revision Number	03

LIGHT CURED ONE-COMPONENT 7TH GENERATION UNIVERSAL DENTAL ADHESIVE

1. PRODUCT INFORMATION

The 7th generation one-component bond system is a self-etch bonding system in dentistry in which both pickling and primary and bonding agents are combined. These systems provide effective bonding to both dentin and enamel and offer ease of application and time savings. It is suitable for use in selective etch (roughening only tooth enamel with phosphoric acid) and total etch (roughening on both enamel and dentin with phosphoric acid) procedures. It is a universal bonding agent that polymerizes with radiation with ideal adhesion and adhesion strength.

2. CONTENT

UDMA, TEDGMA, 4-META, 10-MDP, Camphorquinone, acetone, silane-silica-water.

3. INDICATIONS

- Bonding of direct restorations of all cavity classes (Black) using light, dual or self-polymerizing methacrylate-based composites/comonomers.
- Bonding of light, dual or self-polymerizing core making materials.
- Covering hypersensitive tooth areas.
- Covering cavities before amalgam restorations.
- Bonding fissure sealants.
- Closure of cavities and core preparations before applying temporary cementation to indirect restorations (in accordance with the dentin closure technique applied without delay)
- Cementation of indirect restorations with light, dual or self-polymerizing adhesive resin cements.
- Intraoral repair of composite and composite restorations, metal-supported porcelain and all-ceramic restorations, metal restorations.

4. FEATURES & BENEFITS

- **Easy and Fast Application:** Since it is a single component, it shortens the application time.
- **Minimal Technical Precision:** Humidity control requires less precision than conventional total-etch systems.
- **Reduced Post-Operative Sensitivity:** It provides obstruction of dentin tubules and reduces the risk of sensitivity.
- **Low Film Thickness:** The thin film layer increases the adaptability of the restoration.
- **High Bonding Strength:** Provides strong bonding to both enamel and dentin.

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5. CONTRAINDICATIONS

- Use of this product in cases of known or suspected allergy to the ingredients of this product.
- In case of known or suspected allergy to methacrylate components.
- Do not allow Bond to come into direct contact with unprotected pulp tissue.

6. APPLICATION INSTRUCTIONS

CAVITY PREPARATION

- Complete tooth decay cleaning and cavity shaping.
- Clean the cavity with an air-water spray and leave it slightly damp (do not dry it completely). **Over drying can lead to dehydration of the dentin tubules and a decrease in their bonding strength.**

ISOLATION

- Rubber dam: Recommended for humidity control.
- Alternatively, cotton rolls and saliva absorbers can also be used.

BOND APPLICATION

- **Preparation of the Bond agent:** Shake the bottle well to make it homogeneous.
- **Application of Bond Agent:** **Apply** the bond directly to the enamel and dentin surface with a micro brush or applicator.
- Gently feed the Bond agent into the surface and apply it with scrubbing motions for about 20 seconds.
- **Light Air Ventilation:** Gently dispense the Bond with low-pressure air, forming a thin layer on the surface. Do not use excessive air pressure; This can cause Bond to move away from the surface.
- **Curing:** An LED light source (1000-1200mW/cm² power) emitting blue light in a narrow wavelength range between 450-490 nm is recommended as a photo initiator, 10 sec. irradiation for each layer, or a HALOGEN light source between 380-500 nm (700mW/cm² power) for 20 sec. irradiation for each layer.

COMPOSITE APPLICATION

- Apply your composite restoration directly on the cured bond layer.
- Polymerize the composite by layering in accordance with the manufacturer's instructions.

7. ALERTS

- Since the bond polymerizes with light, it must be protected against ambient light. After use, the lid should be closed immediately.
- Materials containing eugenol can adversely affect the polymerization of bond.
- If a problem is encountered in allergic and hypersensitive people, the application should be stopped immediately, washed with plenty of water and a specialist doctor should be consulted.

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- Personal protective equipment such as gloves, face masks, and safety goggles should be worn at all times.
- Avoid inhalation or ingestion of material.
- Bond is flammable and volatile. Do not use directly next to flammable. Keep away from explosive sources. Keep away from direct sunlight.
- In case of contact with eyes, rinse immediately with plenty of water or seek medical attention.
- It is not recommended to use disinfectants, hemostats and rinse solutions containing EDTA or hydrogen peroxide. Residues of these substances can adversely affect adhesion and adhesive polymerization reaction. Chlorhexidine solutions can be used for disinfection.
- Dispose of the contents and bottle according to local regulations.

8. PACKAGING

- It is packaged in 2ml, 5ml, 500ml and 1000ml.

9. STORAGE CONDITIONS

- Store syringes between 15° and 25 ° C at +/-5 30% rh.
- Do not use damaged syringe tubes.
- If it will not be used for a long time, store it in a cool and dark environment.
- The shelf life of the product is 2 years.

10. SYMBOLS

	Production Date
	Producer
	Refer to the user manual
	Lot number
	Temperature display (15-25)°C
	Attention
	CE Standard
	Protect from sunlight

 PROFESSIONAL DENTAL PRODUCTION	7TH GENERATION ONE COMPONENT LIGHT CURED ADHESIVE	Document Number	KK.07
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	Non-sterile mark
	Store in a dry place
	It is disposable
	DEHP Free
	LATEX-Free
	Expiry Date
	Relative humidity display(30Rh)

11. COMPANY INFORMATION

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

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