

INSTRUCTION FOR USE ReCreateLC

Universal Light-curing Nano Hybrid Restorative Composite

COMPOSITION

- Dimethacrylate oligomers (TEGDMA, UDMA, bis-EMA)
 - Combined radiopaque filler from modified aluminosilicate glass (0.02-2.0 urn)
 - Nanosized particles of silicon oxide (5-20 nm)
- The proportion of inorganic filler is approximately 80 %.

PROPERTIES

Universal restorative material **ReCreateLC** is a hybrid radiopaque light-cured composite. Composite can be easily shaped, does not stick to the instrument, cured under 400-500 nm wavelengths light and polished to a "dry" shine. Material **ReCreateLC** has fluorescence, color stability and radiopacity.

In order to simulate dental tissues, material is produced in a wide range of VITA shades and has three levels of opacity:

Universal shades	A1	A2	A3	A3.5	A4	B1	B2
Dentine-opaque shades (O)		OA2	OA3				
Transparent shades	<i>Incisal (clear) (TC)</i>						

Universal light-curing restorative composite **ReCreateLC** is intended for use in aggressive biological medium at a temperature range from 32°C to 42°C (in oral cavity at the temperature of 37±1 °C and humidity of 60-90 %).

INDICATIONS

Scope-dentistry.

Universal light-curing restorative composite **ReCreateLC** is designed for:

- Restoration of all cavity classes according to Black;
- Core Build-ups;
- Splinting;
- Correction of composite restorations;
- Fabrication of indirect restorations (inlays, onlays, veneers).

CONTRAINDICATIONS

Individual intolerance.

Apply carefully to patients with allergy to methacrylates.

SIDE EFFECTS

As far as all terms of storing, transporting and application are observed, there are no other side effects.

METHOD OF USE

Material, stored at low temperatures, should be warmed at room temperature within 10 minutes before use.

Preparation

Before restoration, dental tissues should be cleaned with non-fluoride paste.

Selection of shade

When selecting the shade of restoration material, the surface of restored tooth should be cleaned and moisturized. The intensity of the color of restorative material depends on its thickness. Suitable shades are determined at daylight or artificial light with the help of VITA scale assuming the thickness of intended restoration.

Recommendations

To test the material of selected shade apply it on untreated surface of the tooth. Make a pattern with the thickness of intended restoration and do polymerization. Estimate the compliance of the shade with tooth colour under different lights, then remove material from the surface of the tooth. If necessary, the procedure can be redone until matching the shade.

Attention! In case of accidental contact with oral mucosa, eyes or skin, rinse the affected area with large amount of water.

Isolation

To ensure good adhesion of material, tooth surface must be thoroughly dried and prepared. For isolation can be used rubber dam or cotton rolls and saliva ejector.

Cavity preparation

Cavity is prepared according to the general rules of adhesive technology. It is necessary

to round the corners, appeared during preparation.

In case of deep cavity, for pulp capping apply calcium hydroxide material and isolate it with glass ionomer cement.

Attention! Do not use eugenol-containing materials, because eugenol disrupts the composite's structuring.

Adhesive application

Prepared tooth surface should be treated with etching gel based on 37 % phosphoric acid (gel for etching Smart Etch, "SafeEndo"). Gel is applied first on the enamel surface, and after 5-10 seconds on the dentin surface. In 15-20 seconds gel should be washed out with water. Dry the surface with compressed air. In case of saliva contact with etching gel or dried tooth surface, repeat etching procedure, then rinse and dry the surface.

Attention! In order to avoid bad adhesion of composite to dental tissues, water for washing should not contain impurities. Air for drying must not contain any oil or water and vapor.

Bonding agent **ReCreate Bond 5 / ReCreate Bond 7** is applied with 2-3 coats on the prepared surface of the tooth

by gently rubbing for 15 seconds. Then gently dry adhesive with air for 5-10 seconds for solvents evaporation. Do photopolymerization with 400-500nm wavelengths light for 20 seconds.

Application of composite and curing

Composite material **ReCreateLC** should be applied and cured layer by layer to reduce shrinkage of the material.

Time of curing and thickness of the layer is determined by transparency of material:

Material transparency	Material layer thickness, mm	Photopolymerization time, s	
		For LED lamps (1000-2000 mW/cm ²)	For halogen lamps (500-1000 mW/cm ²)
transparent shade - (TC)	2.0	10	20
universal shades dentine-opaque shades (O)	1.5	20	40

Multi-layer method of restoration with different transparency pastes allows to create a highly esthetic restoration.

For toning of a composite restoration it is recommended to use LC colored (white, yellow, grey) composites **ReCreateLC** colour.

Attention! Composite paste syringe cap must be closed immediately after use. Intense light contact with material at any stage of restoration might cause premature curing.

During curing the wave guide end of the lamp must be kept in close proximity to the curable material. The intensity of the light, emitted by a lamp for photopolymerization, should be regularly tested with the help of suitable photometers.

Fillings treatment

Fillings treatment is carried out after final curing with the help of diamond, hard-alloy burnisher burs, burs or stones. Check the occlusion with articulating paper, remove the excess material with fine-grained diamond bur or stone. For final polishing use polishing discs, silicone heads and finishing polishing paste ProClean "SafeEndo".

PRESENTATION

Light-curing paste (syringe)

4.5g

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STORAGE

Keep in dry place protected from light at a temperature from 5 °C to 25 °C.

Transport at the temperature range from 5 °C to 25 °C.

Universal light-curing restorative composite **ReCreateLC** is non-sterile and aimed for multiple use.

Attention! Non-compliance with terms of storage, transportation or application leads to decrease of material life.

After opening of the package, guaranteed storage and service life of the material is limited by an expiration date. Do not use after expiry date.

Shelf life-3 years.

MANUFACTURER

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Not For Medicine Use, For Use In Dentistry By Dental Professional

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