JEN LC-FLOW

Flowable Light-Cured Composite for multipurpose use

Suitable for restoring eroded, damaged, discolored and structurally deficient tooth enamel, acrylic veneers and minor defects in porcelain veneers. Also suitable for cementing fabricated laminate veneers. A new highly polishable restorative/cement which offers the handling convenience of light-cured materials combined with outstanding esthetics, color stability, durability and versatility.

Outstanding features of the material:

- Equally efficient as a multi-purpose restorative and veneer cement.
- High adhesive strength to etched enamel without the use of bonds.
- Superior esthetics due to well balanced opacity and light reflectance.
- Excellent color stability.
- Reduced oxygen inhibited layer contributes to the ease of finishing.
- Does not require refrigeration. Shelf life in excess of two years.
- Fast in application – one component restorative system.
- Excellent flow of the material facilitates application.
- May be cured with any dental curing instrument operating in the visible wavelength range.

Instruction:

A. Restoration of deficient enamel

1. prepare the surfaces of the teeth by prophylaxis, using a non-fluoride prophy paste. Wash and dry. Apply etching gel (i.e. Phospho-Jen) with A cotton pledget to the enamel area to be restored. **CAUTION:** Avoid contact with soft tissue or exposed dentin. If accidental spill occurs, wash immediately.
2. Wait 90 seconds. Wash the tooth (teeth) and evacuate. Dry with oil-free air or with any commercial dental drying agent. Properly conditioned (etched) teeth should have a dull, chalkywhite appearance. Highly mineralized teeth may require an additional one to two – minute etching to achieve this effect.
3. Isolate the tooth (teeth) to be restored. Select the desired shade of the restorative and dispense onto a mixing pad.
4. Using a disposable brush, apply a thin, smooth layer over the etched, dry enamel and cure for 20 seconds, holding the tip of the light no farther than 2 mm from the tooth surface.
5. Wait two minutes before finishing. Use finishing tools as for composite materials, preferably like Shofu Brank abrasives for composites. For achieving the best final polish, use Diamond Polish.

B. Applications involving heavily discolored teeth

On heavily discolored teeth (for example, in cases involving discoloration caused by radiological treatment, tetracycline stains, fluorosis, etc.), the application of an opaque, masking layer is recommended. A universal shade opaque (UO) is enclosed in the Jen LC-Flow Kit. If very precise shade matching is desired, the special Opaquer Kit containing material in four shades, is available. The restorative procedure, in such cases, is modified as follows.

After cleaning and etching as described in points 1 and 2 above, a thin layer of the opaquer is painted on as an underlayer and cured for 20 seconds, followed by the application of the final coating. The final coating should be applied over the opaquing layer immediately after the cure of the latter. For best adhesion, the opaquing layer should be left unfinished or its surface should be roughened.

C. Restoration of shallow class V cavities

1. prepare the cavity in a conservative manner removing minimum tooth structure. Bevel the enamel adjacent to the exposed dentin.
2. Condition the dentin and adjacent enamel following the instructions included with Jen-Unibond.
3. Fill the cavity and finish the restoration as described in points 3 – 5 of instruction for restoration of deficient enamel (above).

D. Restoration of acrilic veneers

1. roughen the surface to be restored. Wash away the debris and dry with oil-air.
2. If a relatively large area of metal base of the cast restoration is exposed, cover it with a thin layer of Metal Primer. Wait 45 seconds and cure with curing light for ten seconds.
3. Proceed as outlined in points 3 – 5 of the instructions for restoring enamel.

I. Restoration of porcelain veneers

1. roughen the porcelain to be restored with a diamond bur. If gold or non-precious alloy is exposed, extend the restoration over arelatively large area of porcelain, ground down to a feather edge around the chipped area. Wash away the debris and dry with oil-free air or a dental drying agent.
2. Using a disposable brush, apply a thin layer of Porcelain Etching Agent to the prepared porcelain and wait two minutes. Dry with a gentle stream of oil-free air. In cases where a relatively large area of metal base of the cast restoration is exposed, the use of Metal Primer instead of Porcelain Etching Agent is recommended. A thin layer of Metal Primer should be applied over the roughened metal and margins as described above for the restoration of Acrylic Veneers.
3. Proceed as outlined in points 3 – 5 of the instructions for restoring enamel.

Contraindications

if the patient has the allergic reactions in anamnesis, particularly to methacrylate resins or any other component of dental materials.

Precautionery information:

jen-LC Flow contains methacrylic resins that may cause an allergic reaction. Avoid long or repeating contact of not-polymerized material with the skin (allergic contact dermatitis is possible), soft tissue of the oral cavity and eyes.

In case of contact, immediately wash thoroughly a place of contact with water and soap. If there is rash or other signs of allergic reactions on the skin stop using the material and ask for medical care.

Using of this product on patients with allergies on acrylic materials is to be avoided.

Precautionary measures:

1. while working with the material use special glasses, gloves, clothes and mask. Goggles are recommended for the patients also.
2. Observe security measures provided for the work with powdery, siliceous substances. Use goggles, a mask and gloves.

Collateral reactions:

the product can cause irritation of eyes, skin and mucous membranes. (see. CAUTION section).

Interaction with other dental materials:

using of eugenol-containing materials in a combination with Jen LC-Flow is contraindicated. Evgenol-containing dental materials can have negative impact on ability of polymerization.

Warranty

The manufacturer warrants the quality of manufactured products. The adverse events inflicted by violation of user manual, storage conditions and other events inflicted by non-stipulated usage of the material are not the subjects of warranty. The customer is responsible for determination of suitability of this product for user's application. Warranty conditions: the product does not comply with requirements declared by manufacturer. In this case the manufacturer replaces the defective material within warranty period.

Limitation of liability

The manufacturer's liability is limited by only cases stipulated by direct legislation of the country.

Storage:

Store at room temperature. Protect from direct light. Close tightly the cap after use. Shelf life at room temperature – 2 years. Cooling the material to 4 – 8°C prolongs the shelf life. DO NOT FREEZE!

Recycling

Dispose of the medical device in accordance with local / regional / national / international legal requirements.

Packing:

Syringes 3 g of A1, A2, A3, A3.5, A4, B2, B3, C3, I, UO, GUM with delivery tips.

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