



Quadrant Universal LC

Quadrant Universal LC is a light-cured, fluoride releasing radiopaque Microglass composite for universal application. The particle size of the glass filler render it polishable to a very high gloss; together with a universal bonding system (such as Quadrant UniBond or Quadrant Uni-1-Bond) it is indicated for adhesive cavity filling therapy.

Composition

Quadrant Universal LC is based on a Bis-GMA matrix and contains 60% filler by volume or 72% by weight, which is:

- Ba-Al-F-silicate glass (0.02-2 µm)
- highly dispersed silicon dioxide (0.02-0.07 µm)

Indications

- restorations of class I,II,III,IV and V cavities, e.g.:
 - reshaping
 - shade correction
 - direct veneers
 - splinting of traumatized teeth
 - closing of diastema
 - restoration of primary teeth
 - correction of development abnormalities (e.g. enamel dysplasia)

Interactions with other materials

Do not use in combination with eugenol containing restoratives, as these impair the polymerisation.

Use of Quadrant Syringes^④

Turn the cap from the syringe. Turn the plunger clockwise to express material from the syringe. After use, turn the plunger back for 1/4 revolution to release the pressure from the material. When the syringe is empty, it can be thrown away.

Use of Quadrant Capsules^④

Place the capsule into the barrel of the Q-Gun. Remove cap from capsule. Syringe by squeezing the handle with a slow, steady pressure. Do not force. If capsule blocks, remove and replace with a new unit. Syringe by placing the tip at the bottom of the restoration, and fill from the bottom up. After use, remove the capsule and dispose of properly. The Q-Gun may be cleaned and sterilized by autoclave or dry-heat at temperatures not exceeding 140°C, or soak in an approved disinfectant solution.

Clinical procedure

1. Prepare the cavity according to the general directions for composite restorations. Clean and dry the cavity.^① The use of rubberdam is recommended.^② When restoring exposed root surfaces, a preparation may not be necessary.
2. Apply Quadrant UniBond or Quadrant Uni-1-Bond (or an other universal bonding system as desired) following the instructions for use for that product. Oxygen inhibited layer should remain intact.^③
3. Apply Universal LC in small increments of 2 mm max. in the cavity onto the cavity walls.^⑤ Intensely discolored teeth may require a block-out with an opaquer.
4. Cure Universal LC in layers of max. 2 mm with an appropriate curing light; the curing time is indicated below.^{⑥⑦} During the polymerization, an oxygen inhibited layer develops on the surface. Do not touch or remove this layer, it is essential for the chemical bond of the next Quadrant Universal LC layer.
5. Quadrant Universal LC can be finished and polished with fine diamonds, flexible discs and silicon polishers.^⑧

To prevent premature setting of Quadrant Universal LC in cases that take more time, the operating light may be dimmed or turned away.

| Shade | Polymerization time per 2 mm (s) |
|-----------------------------|----------------------------------|
| A1, A2, A3, A3.5, B2, C2, I | 20 |
| OA2 | 40 |

Safety Advice

Quadrant Universal LC contains monomers capable of polymerization (e.g. multi-functional (meth)acrylic acid ester), which may cause irritations in particularly sensitive individuals. If signs of such irritations appear or if allergies to methacrylate-based resins are known to exist, the product should not be used. Avoid skin contact. In the event of contact with the eyes or extended contact with oral mucous membranes, the affected area should be thoroughly rinsed with water. In case of contact with the eyes consult a doctor.

Storage advice

Do not store at temperatures higher than 25°C (77°F). Do not use this material beyond its expiry date. Avoid direct sun exposure. Close containers firmly after use and keep out of reach of children.

Made in Germany

For dental use only.

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