

Quadrant Posterior Dense

Quadrant Posterior Dense is a light-curing, fluoride releasing radiopaque composite based on Bariumglass. It is highly polishable, and wear resistant. Together with a universal bonding system (such as Quadrant UniBond or Quadrant Uni-I-Bond) it is indicated for high-quality adhesive dentistry.

Composition

Quadrant Posterior Dense has a filler percentage of 58% by volume and 75% by weight. It contains:

- Bis-GMA
- UDMA
- TEGDMA
- Tetra monomers
- Ba-Al-F-silicate glass
- Silicon dioxide (SiO₂)

Indications

- class I and II fillings
- class V fillings

Interactions with other materials

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

Use of Quadrant syringes

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 Quadrant capsules

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. The use of rubberdam is recommended.
2. In case of class II cavities, metal matrices and wooden wedges should be placed.
3. Apply Quadrant UniBond or Quadrant Uni-I-Bond (or another universal bonding system as desired) following the instructions for use for that product. Oxygen inhibited layer should remain intact.
4. Introduce Posterior Dense into the cavity in layers of no more than 2 mm thickness. Pack the material carefully with a compacting instrument (e.g. ball-point compactor) and adapt to the cavity walls. The filling qualities of Posterior Dense facilitate the shaping of the proximal contact point. Posterior Dense can be introduced in horizontal layers.
5. Cure Quadrant Posterior Dense in portions of max. 2 mm with an appropriate curing light. The light-emission window should be placed as close as possible to the cavity. During the polymerization, an oxygen inhibited layer develops on the surface. Do not touch or remove this layer, as it is essential for the chemical bond of the next Quadrant Posterior Dense layer. After removal of the matrix it is recommended that the cervical regions of the filling be polymerised separately for 40 sec. as these may lie within the shadow of the metal matrix.
6. Quadrant Posterior Dense is ready for final shaping as soon as polymerization is completed. Quadrant Posterior Dense can be finished and polished with fine diamonds, flexible discs and silicon polishers.

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

Shade	Polymerisation time per 2 mm (s)
A2, A3, B3, C3	40

Safety Advice

Quadrant Posterior Dense 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.

Produced in Germany

For dental use only.

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The application, use and processing of the products are beyond our control and, therefore, entirely your own responsibility. Should, in spite of this liability be established for any damage, it will be limited to the value of the goods delivered by us and used by you. We will, of course, provide consistent quality of our products within the scope of our General Conditions of Sale and Delivery.