



Quadrant UniChem

Quadrant UniChem is a universal, chemically curing, fluoride-releasing, radiopaque Microglass composite. It can be used after the application of a chemical cured (UniChem self-curing adhesive) or light-cured bonding system (Quadrant UniBond).

Composition

The product is based on acrylate.

Quadrant UniChem contains 64% by volume, 77% filler by weight, which is:

- Ba-Al-F-silicate glass (0.02-2.0 µm)
- silicon dioxide (0.02-0.07µm)

Indications

- fillings class I, II, III, IV, V
- splinting of traumatized teeth
- core build-up

If used with UniChem self-curing adhesive, the outline should completely consist of enamel.

Interactions with other materials

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

Clinical procedure

1. Prepare the cavity according to the general directions for composite restorations. Clean and dry the cavity. Very deep cavities can be protected by a local application of a hard setting calcium hydroxide, in minimal amounts. The use of rubberdam is recommended.
2. Apply Quadrant Total Etch onto the enamel and dentine to be restored and leave for 15-30 sec ¹.
3. Rinse off Quadrant Total Etch completely for at least 15 sec ².
4. Blow dry with oil-free air ³.
5. Mix equal amounts of UniChem self-curing adhesive, base and catalyst, using a Q-Brush ⁴.
mixing time: 10 sec.
handling time: 70-90 sec.
curing time: 80-120 sec.
*Note: For combination with Quadrant UniBond see instructions for use for that product.
6. Apply UniChem self-curing adhesive evenly using the Q-Brush and allow to set ⁵.
7. Mix equal parts of the UniChem pastes using a plastic spatula. In order to avoid cross-contamination of the base and catalyst pastes in their containers, use different ends of the spatula to scoop out the materials. Avoid air inclusions when mixing.
mixing time: 30-40 sec. ⁶
handling time: 2¹/₂-2³/₄ min. ⁷
curing time: 2¹/₂-2³/₄ min. ⁷
8. Apply UniChem in the cavity and allow to set.
9. Quadrant UniChem can be finished and polished with fine diamonds, flexible discs and silicon polishers ⁸.

Quadrant Total Etch

Contains orthophosphoric acid (20%). Irritating for skin and eyes. Avoid contact with eyes, gingiva, mucosa and adjacent teeth. In case of contact with eyes consult a Doctor.

Safety Advice

Quadrant UniChem 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

Store in refrigerator. 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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CAVEX