

Instructions For Use

Quadrant Total Etch

CE 0197

Product description

Quadrant Total Etch is a phosphoric acid based tooth conditioner. It is used in the so-called "total etch technique" for the pre-treatment of both enamel and dentine, in combination with a bonding agent such as Quadrant Uni-1-Bond. This enables the dentist to operate according to the principles of adhesive dentistry, adopting the minimal invasive technique for maximal preservation of sound tooth tissue.

Quadrant Total Etch is meant to be used multiple times (approximately 10 applications per syringe). When Quadrant Total Etch is applied using a brush or cannula, both brushes and cannulas are to be disposed after use.

Composition

Function	Raw Material	% Mass
Acid	Ortho phosphoric acid 85%	41.2
Filler	Silica	6.2
Additive	Fatty alcohol polyglycol ether	0.3
Pigment	CI Pigment blue 15	0.1
Solvent	Distilled water	54.8

Indication for use

- Composite and compomer restorations
- Laboratory-fabricated, indirect restorations (e.g. inlays, crowns, bridges, veneers)
- Sealants

Intended purpose:

Quadrant Total Etch is an etching agent based on orthophosphoric acid. It is used to condition the enamel and dentine by etching the surfaces in the context of adhesive filling therapy.

Contra-indications & Warnings

Contra-indications

Application to dentine close to the pulp (less than 1 mm). In case of known or suspected allergy to components of the product, its use is contraindicated.

Potential side effects

Hypersensitivities to the product or its components cannot be excluded in individual cases.

Storage Conditions

Do not use the material after the expiry date. Do not store at temperatures higher than 25 °C (77 °F). Always close the syringe tightly after use. Keep out of reach of children.

Warnings

Quadrant Total Etch contains 35% phosphoric acid and can cause chemical burns. May cause skin and eye irritation. Avoid contact with skin. Skin contact may cause sensitization. Wear suitable protective gloves. In case of contact with skin, immediately wash with plenty of water and soap. Avoid contact with eyes. Eye protection is recommended for the patient. In case of contact with eyes, rinse with water for several minutes. If symptoms persist, consult an eye specialist. The etching agent must not be swallowed by the patient, otherwise incompatibilities may occur.

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Handling

Prior to treatment, carefully clean tooth with fluoride-free polishing paste. The use of a rubber dam is recommended. Visually inspect for damage before use. Damaged products must not be used.


1. After preparation in accordance with adhesive filling therapy, rinse the cavity and dry with oil-free air.
2. Starting from the bevelled enamel areas, apply Quadrant Total Etch to the entire cavity surface, including the dentine. Ensure that the enamel is conditioned for at least 20 s, a maximum of 30 s and the dentine for a maximum of 15 s. If desired, only apply Quadrant Total Etch to the enamel and let set for a maximum of 30 s. Etch unprepared enamel, e.g. in case of fissure sealing, for at least 30 s and no more than 60 s. In case of fluoridated enamel, etching for no more than 60 s may also be required.

Caution: In case of deep cavities, we recommend covering the dentine near the pulp with a calcium hydroxide preparation and a base (e.g. glass ionomer cement) prior to etching.

3. Use a water sprayer to completely rinse off Quadrant Total Etch 35 for 20 s under suction. The cavity must be completely free of any remnants.
4. Dry the cavity with oil-free air (do not dry out dentine!). The etched enamel surface should appear chalky white. In case of contamination of the tooth surface (e.g. with saliva), the etching must be repeated (for a maximum of 10 s dwell time).
5. Perform further treatment with adhesive (e.g. Quadrant Uni-1-Bond) and composite (e.g. Quadrant Universal LC) in accordance with manufacturer directions. Quadrant Total Etch may be applied using a brush or cannula. Both brushes and cannulas are for onetime use only. Release the plunger after applying the gel. When using syringes in mouth, use common hygienic protective sleeves to prevent contamination. Do not re-use after contamination. After use, close Quadrant Total Etch with the appropriate plug or cap.

Labelling:

This information is in compliance with NEN-EN-ISO 20417:2021 en – Information supplied by the manufacturer of medical devices.

 GHS05 Corrosion	Symbol use explanation:
	Contains ortho-phosphoric acid which is a strong acid and corrosive. Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.

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Intended Patient(s)

Quadrant Total Etch will be used on any patient(s) in the context of adhesive filling therapy.

Children as population are highly unlikely for the use of dental medical devices for prosthetic custom-made devices since these kinds of custom-made devices are usually prescribed for indications that occur through damage in and on the adult teeth. This is however purely based on the timing when such defects occur within a patient life and not based in the toxicological potential of chemicals utilized in such products.

For pregnant women and nursing mothers, the treatment risks must be weighed carefully against the benefits of the treatment in favour of unborn child or infant given the special circumstances.

Intended User(s)

Quadrant Total Etch will only be used by dental professionals (dentist).

Clinical benefits

The following clinical benefits can be considered for Quadrant Total Etch:

Adhesive dentistry benefits patients by allowing healthy dental tissue to be conserved through lesion-oriented, minimally invasive caries treatment. In general, direct restorations are considered the first choice materials due to their low cost and less need for removal of sound tooth substance when compared with indirect restorations. Furthermore, adhesive resin technology enables clinicians to add composite resins to tooth surfaces to close gaps and reshape tooth form without tooth preparation. Tooth shape, position, and color can be altered without loss of tooth tissues.

Claims

- Ultimate concentration for total etching technique
- Distinctive blue color for easy residue detection
- Perfect visual overview of the etching process

Product characteristics and specifications

At present, a product standard for etching agents is not available. Therefore, quality control is carried out according to a number of in-house standards.

Characteristic	Internal specifications	Quadrant Total Etch	
Appearance	homogeneous	homogeneous	
O-phosphoric acid	34 - 36	34 - 36	%

Combination products:

Accessories:

Quadrant Total Etch does not require specific combinations with accessories.

Combination products:

Quadrant Total Etch can be used in combination with the following product(s):

- Quadrant Uni-1-Bond
- Quadrant Uni-SE-Bond

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Special advice

According to EU Medical Device Regulation users/ patients are obliged to report serious incidents with a medical device to the manufacturer and to the competent authority of the country, the incident occurred.

Storage advice

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

Shelf life

We are able to guarantee the good quality of Cavex Quadrant Total Etch for a period of 3 years, when kept in its original packaging, provided the syringe is unopened and stored in a cool and dry place.

Disposal information

Dispose of in accordance with local regulations. Do not dispose of contents or partially emptied packaging in household waste or allow them to enter the sewage system.

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Made in The Netherlands

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