

Definition

Moxie Total Etch Bond

Moxie Total Etch Bond is a light-curing, one-component bonding agent for dentin and enamel for use with light-cure composites. The enamel and dentin surfaces must be etched before applying Moxie Total Etch.

Composition

Bis-GMA-based resin matrix, catalyst, additives.

Indication

Light-cure bonding agent for enamel and dentin in conjunction with the total-etch technique for light-cure composites and compomers for direct and indirect cavity class I-V restorations.

Instructions for use

Contraindications

Application of *Moxie Total Etch* is contraindicated, if the treatment site cannot be reliably isolated during application, if the pulp is exposed or if there is a known allergy to one of the ingredients of the material. Allergies to material components are known; open pulp, pulpitis. Etching of the affected dentin areas is an important step in the application procedure for this material. The material must not be used without prior etching of the dentin. Do not use with chemically hardened composites or compomer. Do not use with dual-cure composites or compomers which are not light-cured.

Side effects

In some cases contact allergies with similar product compositions have been reported. Avoid material contact with eyes, skin and the oral mucosa. In case of contact with eyes, rinse with copious amounts of water and consult a physician. In case of contact with skin clean affected areas thoroughly with soap and water.

Interactions with other agents

Moxie Total Etch should not be used in conjunction with materials containing eugenol, as they could inhibit polymerization.

Application of Moxie Total Etch Bond

Etching is required for both the enamel and dentin surfaces before applying Moxie Total Etch

1. Cavity Preparation

Prepare the cavity according to the rules of the standard adhesive technique. Bevel the enamel margins and protect areas near the pulp in deep cavities with a suitable cavity liner (e.g. *Calcium hydroxide lining material*). Use of a rubber dam is recommended.

2. Etching Dentin and Enamel

It is essential to apply the etching gel to both the enamel and dentin surfaces. Etch the dentin and enamel using 37% phosphoric acid gel (e.g. *Etching gel*). Adhere to the etching gel manufacturer's instructions for use. The reaction time of the etching gel on dentin must not be longer than 15 seconds. The enamel should have a chalky white appearance after etching.

3. Rinsing Etched Surface

Rinse the etched surface with water for a minimum of 15 seconds and then dry the surface with oil-free and water-free air. Ensure that the dentin is not over dried. The surface should then have a shiny moist film. If this is not the case, the surface must be lightly coated again. A moistened microbrush can be used for lightly coating the surface.

4. Application of Moxie Total Etch

A. Application of Unit Dose

Activate the Unit dose of *Total-etch adhesive light-cure* by pressing the silver foil bag, remove the brush, apply the material to the etched surface and gently agitate for 20 seconds. Air dry with oil-free and water-free air for approx. 5 seconds. The conditioned surface should have a uniform, shiny moist film. If this is not the case, a little material should be reapplied. **Please note:** Only remove the brush from the Unit dose after activation as otherwise it could result in leakage of the material. Do not shake or stir the bonder after activation, as it is ready to use immediately after activation

B. Application of Bottle Dose

Extract 1 to 2 drops of Moxie Total Etch onto the mixing board or directly onto the microbrush, Apply the material to the etched surface and gently agitate for 20 seconds. Air dry with oil-free and water-free air for approx. 5 seconds. The conditioned surface should have a uniform, shiny moist film. If this is not the case, a little material should be reapplied.

5. Light Cure Moxie Total Etch

Light cure *Moxie Total Etch* for 10 seconds using a suitable light unit. Light units should have a light intensity of 400 mW/cm², an emission of 450 nm and the performance should be regularly checked. The light should be placed as near as possible to the material.

6. Application of Light-Cure Restorative

Apply the restorative material according to the manufacturer's instructions for use. The oxygen inhibition layer produced during light curing is used for bonding with materials applied over the layer and should therefore not be removed. A matrix should only be used after application of the bonding material, if possible, to avoid excess material collecting between the tooth and matrix (pooling effect). Do not use chemically curing or dual-curing composites with Total-etch adhesive light-cure.

Storage & Shelf Life

Store in a dry place at (2 -25 °C / 36 – 77 °F). Do not use after date of expiry.

Infection Control

Compliance with the following instructions ensure optimal hygienic conditions when using Moxie Total Etch

- Use new disposable microbrushes for each patient
- To prevent contamination Keep bottle vertical while dosing. Release finger pressure after dosing, then turn bottle and screw on lid.

Caution: Federal law restricts this device to sale by or on the order of a dentist