
Dental acid etching gel

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Data de publicació: 01-01-2025

Dental Etchant Gel with 37% Phosphoric Acid, also known as dental acid etching gel, is used primarily to prepare the tooth surface for bonding procedures. Here's how it works:

Desmineralization: The gel removes minerals from the enamel and dentin, creating microscopic pores. This process is called desmineralization¹.

Increased Surface Roughness: By creating these microscopic pores, the gel increases the surface roughness of the tooth. This roughness helps the bonding agent adhere better to the tooth¹.

Improved Adhesion: The etchant gel improves the wettability of the tooth surface, allowing the bonding agent to flow into the microscopic pores and form a strong bond.

Removal of Contaminants: It also removes contaminants like the smear layer and pellicle, ensuring a clean surface for bonding.

This gel is commonly used in procedures like placing sealants, resin composite restorations, orthodontic brackets, veneers, and resin-bonded crowns and bridges.

Would you like to know more about any specific dental procedure or product?

yes please it has to be removed by blowing pressurized air before applying the resin composite

Yes, after applying the Dental Etchant Gel (37% Phosphoric Acid), it's crucial to properly prepare the tooth surface before applying the resin composite. Here's the general process:

Apply the Etchant Gel: The gel is typically applied to the tooth surface for about 15-20 seconds, depending on the manufacturer's instructions and the type of tooth (enamel or dentin).

Rinse Thoroughly: After the etching time, the gel should be thoroughly rinsed off with water. This step is essential to remove all traces of the etchant and the dissolved tooth structure.

Dry the Tooth Surface: Use a gentle stream of air to dry the tooth surface. This is important to remove excess moisture while avoiding desiccation (over-drying) of the dentin, which can affect bonding.

Check the Surface: The etched surface should appear frosty or chalky white if it's enamel. For dentin, ensure it is adequately moist (not too dry, not too wet) to facilitate optimal bonding.

Apply the Bonding Agent: After the surface is prepared, apply the bonding agent according to the manufacturer's instructions. This step ensures proper adhesion of the resin composite to the tooth.

Proper rinsing and drying are critical to ensure a clean and appropriately conditioned surface for optimal bonding.