

1. **Product Description & Main Ingredients**

D Tech AQ Bond is a 5th generation, total etch, single step, light cured bonding agent.

AQ Bond has been developed for the adhesive bonding of plastic filling materials (e.g. composites) to dental substrate. With AQ Bond priming, bonding & desensitizing can be done in one step.

Main Ingredients

Ethanol, Methacrylate monomer, Filler, Photoinitiator

2. **Indications**

- 2.1 Direct light- cured composite restoration
- 2.2 Treatment of hypersensitivity in teeth
- 2.3 Direct veneering
- 2.4 Indirect restorative cementation

3. **Contraindications**

- 3.1 If dry working field cannot be established or the stipulated application technique cannot be applied.
- 3.2 If a patient is known to be allergic to methacrylate.
- 3.3 AQ Bond Must not be used in conjugation with self-curing composite materials.

4. **Precautions (Please read carefully before use)**

- 4.1 Contact with skin or mucous membranes may cause irritation. Prevent contact with skin, mucous membranes and eyes by taking precautions such as a using a dental dam on the patient, wearing rubber gloves (dentist) and wearing safety glasses (patient & dentist).
- 4.2 In case of contact with eyes, immediately rinse eyes with water for several minutes after contact. Seek ophthalmological medical attention if pain persists. Wash skin with water and soap after contact.
- 4.3 Avoid use of this product in patients with known acrylate / methacrylate allergies.
- 4.4 If prolonged contact with oral soft tissue occurs, flush with large amounts of water. If allergic reaction occurs, seek medical attention as needed, remove the product if necessary and discontinue future use of the product.
- 4.5 AQ Bond total etch contains solvents which are flammable.
- 4.6 Presence of eugenol impairs the setting of all light cured materials so pls ensure that the prepared surface is fully free of eugenol.
- 4.7 Important Notes -
- 4.7.1 Single step AQ Bond will bond to RMGIC liner/bases whether or not the ionomer was treated with etchant.
- 4.7.2 It is recommended that the surface be left moist after rinsing. Excess surface moisture should be removed by blotting.
- 4.7.3 Light devices should emit wavelength of about 450 nm and intensity should be regularly Inspected. The light should be placed as close as possible to the filling material.
- 4.8 Sensitivity
Some patients may experience transitory postoperative sensitivity. The risk of sensitivity can be minimized by the following measures:

4.8.1 **Tooth Preparation**

Remove minimal tooth structure. Use proper isolation. Use of a rubber dam is highly recommended. Use adequate pulp protection. Use a glass ionomer or resin-modified glass ionomer liner/base in areas of deep excavation.

4.8.2 **Adhesive Application**

Use of compressed air is not recommended to remove pooled water remaining after the etch step—blot excess moisture from the preparation using a cotton pellet or mini-sponge. Apply adhesive immediately after blotting.

4.8.3 **Restorative**

Place restorative material in increments, curing each increment separately. Adequately cure restorative according to instructions for shade and thickness of restorative and light exposure time. Adjust occlusion carefully.

5. **Application Method**

Direct light Cure Composite Restorations

- 5.1 Isolation of the work area: The use of rubber dam is recommended
- 5.2 Cleaning: Clean tooth with a prophylaxis-paste free from oil & fluoride
- 5.3 Cavity preparation: Prepare cavity with minimal tooth reduction. Bevel cavity surface enamel margins.
- 5.4 Etching: Apply D tech Etchant to enamel and dentin. Wait 15 seconds. Rinse well. Blot excess water using a cotton pellet or mini-sponge. The surface should appear glistening & moist without pooling of water. Do not desiccate the surface as this can result in collapse of dentinal tubules and impair bonding strength.
- 5.5 Adhesive: Immediately after blotting, apply 2-3 consecutive coats of adhesive to etched enamel and dentin for 15 seconds with using a fully saturated fibred applicator. Gently air dry for five seconds to evaporate solvents. Light cure by use of Light curing unit (LCU) with below mention time
20 Sec- LCU with intensity min. 400–500mW/cm2
10 Sec- LCU with intensity min. 900–1200mW/cm2
- 5.6 Restorative Placement: Place the restorative in 2mm increments, cure and complete the finishing unless mentioned in manufactures IFU, Else Refer to manufacturer's instructions for placement, cure and finishing of restorative materials.
6. **Packaging & Variants**
Net Content 1 x 5ml Black UV Safe dropper bottle
7. **Storage & Handling:**
 - AQ Bond System can be stored at room temperature but it is preferable to store in refrigerator particularly in tropical climate.
 - AQ Bond adhesive should be capped immediately after use to minimize evaporation.
 - Do not expose to elevated temperature or intense light.
 - Do not store in proximity to eugenol containing products.
 - Shake Well Before Use

REFERENCE NO: IFU/AQ/05/1125



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Storage



Non Sterile



Keep Dry



Instruction for Use



Keep away
from Sunlight



Authorised
Representative



Unique Device Identifier



Manufacturer



Batch No

Expiry

Limitation of Liability

Except where prohibited by law, D Tech will not be liable for any loss or damage arising from this product, whether direct, indirect, special, incidental or consequential, regardless of the theory asserted, including warranty, contract, negligence or strict liability

For use only by a dental professional