

QualiSense ADHESIVE T1

Light cure one component bonding agent for the total-etch-technique

Recommendation for Use

ADHESIVE T1 is a simple to use **light cure one component bonding agent**. It is designed for strong bonding of light cure **composites and compomers to etched enamel and dentine and to nonprecious and precious metals**.

Its strong adhesion to etched enamel or dentine proceeds on principles similar to that occurring with glassionomer cements. Good, long lasting adhesive strength and good biocompatibility are attained by polycarboxylic acids.

ADHESIVE T1 is compatible with all current brands of visible light cure composite materials. It is ethanol-based and hydrophilic. **ADHESIVE T1** can be used on slightly moist dentine surfaces (wet bonding technique).

If a dual or self-cure bonding system is recommended, the dual cure **ADHESIVE T2** can be applied in a similar way.

Indications

Adhesive for:

- Composite based restorations with light cure composites

Side effects

In singular cases, **ADHESIVE T1** may cause a sensitizing reaction in patients with a hypersensitivity to any of the ingredients. In these cases, the material should not be used.

Irritations resulting from direct contact with the pulp cannot be ruled out. Therefore for pulp protection areas close to the pulp should be covered with a thin layer of calciumhydroxide material.

Incompatibility with Other Materials

Do **not** use in combination with substances containing eugenol because eugenol inhibits the polymerization of the material. Neither store the material in proximity of eugenol containing products, nor let the material allow coming into contact with materials containing eugenol.

Application

1. Isolation

Rubber dam is the recommended method of isolation.

2. Cavity Preparation

Clean the tooth with flour of pumice and water prior to preparation. Prepare the cavity with minimal tooth reduction. Margins should have a slight (**0.5 - 1.0 mm**) bevel placed in the enamel to increase the surface area for greater bond strength.

3. Pulp Protection

For pulp protection areas close to the pulp should be covered with a thin layer of calciumhydroxide material (e. g. **CH LINER**).

4. Enamel and Dentine Conditioning

Recommended is the total etch technique. Apply **ETCHING GEL** onto the enamel and dentine surfaces beginning with the enamel bevels. Condition **the enamel for at least 15 seconds and the dentine for 15 seconds**. Deciduous teeth are etched correspondingly longer. Rinse for 20 seconds with water. Dry it in a water-free and oil-free airstream, but do **not desiccate**. A slightly wet dentine surface is important for the function of **ADHESIVE T1**. The etched enamel bevel should have a chalky white appearance.

Etching precaution

It is essential, that etched areas are not contaminated by anything. If contamination occurs, re-etch, rinse with water and dry as above. Avoid etching gel contact with oral soft tissues, eyes, and skin. If accidental contact occurs, flush immediately with copious amounts of water.

For the typical indications of compomers etching is mostly not recommended, but it improves considerably the bonding with tooth material.

5. Application of ADHESIVE T1

Apply **ADHESIVE T1** generously with a brush onto the enamel and dentine surfaces for **30 seconds** with agitation. The material should build a homogeneous layer. Remove excess material carefully.

Dry cautiously with oil free air for about **15 seconds** to remove all volatile components and to disperse the adhesive to an even layer. Do not desiccate the dentine.

Cure the **ADHESIVE T1** layer for **20 seconds** with a suitable dental halogen light unit or an LED (**wavelength 400–500 nm, light intensity min. 1000 mW/cm²**) before application of a second layer of **ADHESIVE T1**.

Note:

If not used immediately, place dispensed **ADHESIVE T1** in subdued light to prevent premature polymerization by incident light. The **ADHESIVE T1** will **not** self cure.

6. Application of a Second Layer of ADHESIVE T1

Apply again the **ADHESIVE T1** as described under **point 5.** and light cure before placement of a light cure composite.

7. Restorative Placement

Apply the restorative material according to the instructions of the manufacturer.

Best results are obtained with application of a thin layer of a light cure flowable composite followed by the application of a moldable composite. Light cure each composite layer separately according to the corresponding user instructions.

Warnings

- Unpolymerized material may have an irritating effect and may lead to a sensitizing reaction against methacrylates.
- Avoid contact with skin, mucous membrane and eyes.
- If the material comes into contact with skin, immediately wash with water and soap. If the material comes into contact with eyes, immediately rinse with copious amounts of water and seek medical advice if required.
- Commercial medical gloves do not protect against the sensitizing effect of methacrylates.

Storage of ADHESIVE T1

Do **not** store above **25 °C (77 °F)**! Avoid storage in direct sunlight. Do **not** use **after expiration date**.

Warranty

DS Dental Supply GmbH warrants this product will be free from defects in material and manufacture. DS Dental Supply GmbH makes no other warranties including any implied warranty of merchantability or fitness for a particular purpose. User is responsible for determining the suitability of the product for user's application. If this product is defective within the warranty period, your exclusively remedy and DS Dental Supply GmbH's sole obligation shall be repair or replacement of the DS Dental Supply GmbH product.

Limitation of Liability

Except where prohibited by law, DS Dental Supply GmbH 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.

Keep away from children!

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