

QualiSense UNIVERSAL ADH

Universal Adhesive

Recommendation for Use

UNIVERSAL ADH is a simple to use light cure universal adhesive. **UNIVERSAL ADH** can be used with the self-etch technique, with preceding selective enamel etching or with the total-etch technique. It is suitable for moist, wet and dry surfaces. Based on innovative MDP technology **UNIVERSAL ADH** allows an excellent adhesion.

For applications, where light cure cannot be ensured (e.g. in the root canal) **UNIVERSAL ADH** has to be used in combination with **UNI CATALYST**. Please refer to the instructions for **UNI CATALYST**.

Indications

Adhesive for the self-etch technique, selective enamel etching or total-etch technique for:

- Direct light cure composite and compomer restorations.
- Core build-ups with light, dual and self-cure composites (e.g. DC CORE, NANOCORE ZR) if light cure of the adhesive is possible.
- Cementing of inlays, onlays, crowns and bridges with light, dual and self cure composite cements (e.g. DC CEM) if light cure of the adhesive is possible.
- Repair of fractured composite restorations

Use **UNIVERSAL ADH** only with dual cured or self cured composites if light cure of the adhesive is guaranteed.

Side effects

In singular cases, the material 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 come into contact with materials containing eugenol.

Application

1. Isolation

Rubber dam is the recommended method of isolation.

2. Cavity Preparation

Prepare the cavity according to the principles of the adhesive restoration technique.

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. Conditioning with ETCHING GEL (optional)

Selective enamel etching or etching by application of the total-etch-technique can be used to improve the bond to enamel.

Note:

Unprepared enamel surfaces must always be conditioned with **ETCHING GEL**.

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.

a. Selective enamel etching

Apply **ETCHING GEL** onto the enamel surfaces and leave in place for at least **15 seconds**. Deciduous teeth are etched correspondingly longer. Rinse for **20 seconds** with water and dry it in a water-free and oil-free airstream. The etched enamel surface should have a chalky white appearance.

b. 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**.

The etched enamel bevel should have a chalky white appearance.

5 Application of UNIVERSAL ADH

Bottle:

Dispense one or two drops **UNIVERSAL ADH** into a mixing well and use immediately after dispensing.

Close bottle immediately after use.

Snap-off ampoules:

Make sure that the ampoule is opened just before use. Hold the snap-off ampoule at each end. (place thumb below the center score). Press firmly until the ampoule separates. Discard the cap. Remove the adhesive with a suitable brush under rotation and apply.

Apply **UNIVERSAL ADH** with a brush onto the whole enamel and dentine surface in a thin and even layer. Keep the adhesive agitated for at least **20 seconds**. Applying the adhesive on the tooth surface without agitation is inadequate. The material should build a homogeneous layer.

Air thin gently (**at least 5-10 seconds**) to remove the volatile components and to disperse the adhesive until a glossy and uniform layer results. Then light cure with a suitable dental halogen light unit or an LED (**wavelength 400–500 nm, light intensity min. 1000 mW/cm²**) for **20 seconds**.

6. Application of a composite

Refer to manufacturer instructions for placement of the light, dual or self cure restorative material.

Note for direct restorations

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

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

UNIVERSAL ADH in the snap-off ampoule is for single use only.

Warranty

First Scientific Dental Materials GmbH warrants this product will be free from defects in material and manufacture. First Scientific Dental Materials 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 First Scientific Dental Materials GmbH's sole obligation shall be repair or replacement of the First Scientific Dental Materials GmbH product.

Limitation of Liability

Except where prohibited by law, First Scientific Dental Materials 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!

For dental use only!

