

QualiSense LC DESENSITIZER

Light Curing One Bottle Desensitizing & Adhesive Agent

Recommendation for Use

LC DESENSITIZER is a light curing dentine adhesive agent, which serves all at once as a desensitizer. It is designed for strong bonding of composites, compomers and metals to enamel and dentine. The application as a desensitizer in cervical regions and free dentine areas during and after dental treatments anodynes all postoperative pains. LC DESENSITIZER does not tan and irritate the tissue and gingiva.

The strong adhesion of LC DESENSITIZER to etched enamel or dentine proceeds on principles similar to that occurring with glass ionomer cements. Good, long lasting adhesive strength and good biocompatibility are attained by methacrylate grafted polycarboxylic acids.

The desensitizing LC DESENSITIZER has good wetting properties. It is ethanol-based and hydrophilic. Therefore it can be used on slightly moist dentine surfaces (**wet-bonding-technique**).

1. Application before Restorations

1.1. Isolation

Rubber dam is the recommended method of isolation.

1.2. 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.

1.3. Pulp Protection

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

1.4. 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 LC DESENSITIZER. 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.

1.5. Application of LC DESENSITIZER

Apply LC DESENSITIZER 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 LC DESENSITIZER to an even layer. Do not desiccate the dentine.

LC DESENSITIZER will not self-cure. Cure the LC DESENSITIZER coating by exposing its entire area to a dental halogen light unit for **20 seconds** before application of a second layer of LC DESENSITIZER.

Notes: Do not rinse off the LC DESENSITIZER! If not used immediately, place dispensed mixture in subdued light to prevent premature polymerization by incident light.

1.6. Application of a second layer of LC DESENSITIZER

Apply again LC DESENSITIZER generously with a brush onto the adhesive surfaces as described under 1.5. before placement of a light cure composite or an amalgam restoration.

Note:

Because light curing under amalgam restorations is impossible, and the primer does not selfcure it is essential

to cure the coating by exposing its entire area to a dental halogen light unit for **20 seconds** before application of the amalgam filling.

1.7. Restorative placement

Refer to manufacturer instructions of restorative materials.

2. Application after bleaching procedures, scaling and in other cases of hypersensitive areas

2.1. Preparation

Clean the sensitive areas and rinse thoroughly. Dry the sensitive area with a cotton pellet or roll to remove excess moisture. Do **not** overdry!

2.2. Application of LC DESENSITIZER

Apply LC DESENSITIZER generously 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 LC DESENSITIZER coating by exposing its entire area to a dental halogen light unit for **20 seconds** before application of a second layer of LC DESENSITIZER.

Apply again LC DESENSITIZER as described above and light cure for 20 seconds.

Storage

Do **not** store above 25 °C (77 °F)!

Avoid storage in direct sunlight.

Do not use after expiration date.

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.

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