

QualiSense NANOHYBRID

Esthetic low shrink light cure composite with nano-filler technology

Instructions for Use

NANOHYBRID is a visible light cure radiopaque nano-filled composite for anterior and posterior restorations. Beside its low shrink and low abrasion NANOHYBRID shows improved handling features and excellent mechanical properties. NANOHYBRID is based on urethanedimethacrylate resin and inorganic filler particles <math><1.0 \mu\text{m}</math>. The total filler content is 82 % (wt) and 74% (vol).

The composite material meets the requirements of DIN EN ISO 4049, type 1, class 2, group 1.

Indications

Suitable for all cavities.

Side Effects

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 pulp capping material.

Incompatibility with Other Materials

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

Preparation of Tooth and Colour Matching

Clean the tooth with a fluoride-free polishing paste (e.g. flour of pumice with water) prior to preparation and colour matching.

Ascertain the tooth shade while teeth are still moist and select the appropriate NANOHYBRID shade.

NANOHYBRID is shaded according to VITA®-Shades. It is also available in special shades and bleach shades.

Cavity Preparation

After isolation (best with a rubber dam) prepare the cavity with minimal tooth reduction.

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

Condition and apply a bonding agent according to the manufacturer instructions. The total etch technique with ETCHING GEL and subsequent application of a light cure bonding agent (e.g. ADHESIVE T1) is recommended. Otherwise use a self etching bonding agent (e.g. ADHESIVE S2 or ADHESIVE S1) before application of the NANOHYBRID .

Application and Curing of NANOHYBRID

Apply NANOHYBRID in the selected shade. NANOHYBRID is easy to model. Place it by using a suitable instrument. Matrix strips may be used.

In case of deep and extended cavities best results are obtained with a build-up of a base liner using a light cure resin modified cement (e.g. MODGLASS F) or a light cure flowable composite (e.g. LC HI-FLOW NANO), followed by the application of NANOHYBRID .

In case of small cavities NANOHYBRID can be applied directly.

For an optimum result apply NANOHYBRID F in layers of max. 2 mm. Light cure each increment separately.

By using a polymerization unit (wavelength range 400-500 nm) with a light intensity of at least 1000mW/cm², cure each increment as follows:

Lighter shades (e.g. A1, A2, C2) 20 seconds

Darker shades (e.g. A3.5, B3) 30 seconds

Hold the light emission window as close as possible to the filling material.

Finishing

Depending on the shape of the area contour with finishing diamonds, flexible grinding discs or carbide burs.

Polish to high gloss with polishing discs or polishing brushes.

Storage

Do not store above 25°C (77°F). Protect from direct sunlight.

Do not use after expiry date.

Close syringe immediately after use to avoid exposure to light.

APPLIC.-Tips are for single use only due to hygienic reasons.

Additional Notes/Warnings

- The ambient light of the dental lamp may start polymerization of the composite.
- Do not use any resin to adjust viscosity of composite restorative material.
- Avoid contact with skin, mucous membrane and eyes.
- Unpolymerized composite may have an irritant effect and can lead to sensitization against methacrylates.

- Commercial medical gloves do not protect against the sensitizing effect of methacrylates.

- VITA® is a registered trade mark of the VITA-Zahnfabrik, Bad Säckingen, Germany.

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 exclusive remedy and DS Dental Supply GmbH's sole obligation shall be repair or replacement of the DS Dental Supply GmbH product.

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Keep away from children!

For dental use only!