

Instructions for Use

One-Layer-Adhesive

Description

Orbi-Bond AF is a filled, light-curing, single-component bonding agent for enamel and dentin bonding in conjunction with the total etch technique.

Composition

Orbi-Bond AF contains HEMA, dimethacrylates, acid acrylate, highly dispersed silicon dioxide, initiators and stabilizers in an alcohol solution.

Indication

- Adhesive for direct, light-curing composite and compomer restorations
- Adhesive for light initiated resin cements used in conjunction with indirect all-ceramic and composite restorations (veneers, inlays, onlays; only lightcuring materials)

Contraindication

Do not use Orbi-Bond AF if a patient is known to be allergic to any of the material's ingredients or if the stipulated working technique cannot be used. Orbi-Bond AF is a light-curing adhesive only and should not be used in conjunction with selfcuring resin materials. Dual-curing materials must be light initiated.

Side effects

Orbi-Bond AF may cause a sensitizing reaction in patients with a hypersensitivity to any of its ingredients. In these cases, the material should no longer be used.

Interaction

Materials containing eugenol or clove oil may inhibit the polymerization of Orbi-Bond AF.

Application procedure

Direct restorations (Composites, compomers)

- 1) Apply phosphoric acid gel (37 %) to the prepared enamel and then flow the etchant onto the prepared dentin. Use a disposable brush or syringe tip to push the etchant into any restricted areas of the preparation, leave for 15–30 seconds on enamel and for 10–15 seconds on dentin. Remove all etchant gel with a vigorous water spray for at least 5 seconds. Excess water is removed with the application of 1–2 bursts of clean, dry air. Do not overdry dentin; moist preparation surfaces should be apparent (wet-bonding).

- 2) Saturate enamel and dentin with a generous amount of Orbi-Bond AF using a Brush or a comparable application aid. Gently agitate the adhesive onto all prepared dentin surfaces for at least 10 seconds. The ideal adhesive surface prior to restorative placement should have a uniform, glossy appearance and be solvent-free. This may be achieved using a gentle clean dry stream of air for 1–3 seconds, approx. 5 mm from the preparation surface. Avoid pooling or insufficient coverage of the adhesive. Cure Orbi-Bond AF with halogen or plasma arc polymerization lights. When using high performance halogen curing light, the polymerization time is 10 seconds. For other halogen curing lights, the polymerization time is 20 seconds. The curing time with plasma arc polymerization lights depends on the intensity and the emitted wavelength range of the corresponding curing light (contact the manufacturer of the curing light, if necessary). Polymerization times below 5 seconds are not recommended. Subsequently, apply the direct restorative using the stipulated technique.

Indirect restorations

- 1) Prepare the surfaces of the ceramic or composite restoration according to the instructions of the manufacturer. Apply Orbi-Bond AF adhesive onto the internal aspects of the restoration and disperse the material to a thin layer using clean, dry air. Do not light-cure the adhesive at this step. Protect from light.
- 2) Apply phosphoric acid gel (37 %) to the prepared enamel and then flow the etchant onto the prepared dentin. Use a disposable brush or syringe tip to push the etchant into any restricted areas of the preparation, leave for 15–30 seconds on enamel and for 10–15 seconds on dentin. Remove all etchant gel with a vigorous water spray for at least 5 seconds. Excess water is removed with the application of 1–2 bursts of clean, dry air. Do not overdry dentin; moist preparation surfaces should be apparent.
- 3) Saturate enamel and dentin with a generous amount of Orbi-Bond AF using a brush or a comparable application aid. Gently agitate the adhesive onto all prepared dentin surfaces for at least 10 seconds. The ideal adhesive surface prior to restorative placement should have a uniform, glossy appearance and be solvent-free. This may be achieved using a gentle clean dry stream of air for 1–3 seconds, approx. 5 mm from the preparation surface. Avoid pooling as this may compromise the accuracy of fit of the definitive restoration. Cure Orbi-Bond AF with halogen or plasma arc polymerization lights. When using a high-performance halogen curing light, the polymerization time is 10 seconds. For other halogen curing lights, the polymerization time is 20 seconds. The curing time with plasma arc polymerization lights depends on the intensity and the emitted wavelength range of the corresponding curing light (contact the

Orbi-Bond AF

www.orbis-dental.de

ORBIS

Handelsgesellschaft mbH, D-48153 Münster
Schuckertstraße 21, Tel.: 0251/3226786

manufacturer of the curing light, if necessary). Polymerization times below 5 seconds are not recommended. Subsequently, the restoration is sealed using a light/dualcuring luting cement. The materials are then light-cured from all surfaces for at least 40 seconds each according to manufacturer's instructions. Proper output of operatory curing light must be maintained at all times.

Warning

Avoid contact of Orbi-Bond AF with the skin, mucous membrane or eyes, as the material may have an irritating effect. If Orbi-Bond AF comes into contact with the skin, immediately rinse with soap and water. If Orbi-Bond AF comes into contact with the eyes, immediately rinse with copious amounts of water, and, if required, seek medical advice.

Storage

- Date of expiration: see label/packaging.
- Do not use Orbi-Bond AF after the indicated date of expiration.
- Close bottle immediately after use.
- Storage temperature: 2–28 °C / 36–82 °F

**Keep out of the reach of children.
For use in dentistry only.**

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This material has been developed solely for use in dentistry. Processing should be carried out strictly according to the Instructions for Use. Liability cannot be accepted for damages resulting from failure to observe the Instructions or the stipulated area of application. The user is responsible for testing the material for its suitability and use for any purpose not explicitly stated in the Instructions. Descriptions and data constitute no warranty of attributes and are not binding.