CLEARFIL SE BOND

Inventing the self-etching technique with the product CLEARFIL LINER BOND 2 back in 1993, Kuraray Co., Ltd., Japan, has now developed a second generation of self-etching primer and bonding systems which has been scientifically proven and recommended previously.

CLEARFIL SE BOND is a simplified, water-based, light-curing bonding system that significantly reduces procedural time, while still providing excellent bond strength and sealing performance for all light-cured restorations.

Intelly-Case
Convenient storage and single handed delivery of both fluids is made possible with this unique box. It allows you safe and quick application and avoids direct finger contact to the contents.

Scientific research data:

Related products

CLEARFIL PORCELAIN BOND ACTIVATOR
This product is mixed 1:1 with Primer of CLEARFIL SE BOND or LINER BOND 2V and works as a silane coupling agent which guarantees strong adhesion to porcelain, metal and composite restorations.

CLEARFIL AP-X
is a light-curing, radiopaque restorative composite resin, which provides accurate colour matching, high polishability and excellent physical properties, making it suitable for both anterior and posterior restorations as well as for cervical and root surface restorations.

It is formulated with the optimal viscosity for easy handling and placement. Thanks to its consistency the material does not stick to normal steel or any other placing instruments.

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Scientific research data:

Kit components

SE Primer (6ml)
SE Primer is a water based 20 second self-etching primer. Its unique chemistry soothes dentine and desensitizes immediately upon contact.

SE Bond (5ml)
SE Bond is a 10% filled, light cured adhesive that has excellent stability thus reducing stress under light cured composites during polymerization and virtually eliminates postoperative sensitivities.

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Accessories:
Brush Tip handle, Mixing plate, Light blocking plate
Disposable brush tips (50 pieces x 2)

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**What is Self-Etching?**

Self-Etching simultaneously Totally Etches and Primes dentine and cut enamel. Self-Etching is made possible with primers that contain phosphate monomers. These monomers have an acid group that dissolves the smear layer which will be integrated into the hybrid layer, then penetrates the dentinal tubules and begins sealing and desensitizing immediately.

**Indications**

CLEARFIL SE BOND is suitable for the following restorative procedures:
- Direct filling restorations using light-cured composite or compomer
- Cavity sealing as a pretreatment for indirect restorations
- Treatment of hypersensitive and/or exposed root surfaces
- Intraradicular repairs of fractured facing crowns made of porcelain, hybrid ceramics or composite resin using light-curing composite
- Surface treatment of prosthetic appliances made of porcelain, hybrid ceramics and cured composite resin

**OPTIMIZED PHYSICAL PROPERTIES**

CLEARFIL SE BOND PRIMER and BOND contain the proven adhesive monomer MDP (10-Methacyloyloxydodecyl dihydrogen phosphate), as used in the PANAVIA and CLEARFIL LINER BOND series. MDP provides high bond strength and long-term bond durability to enamel, dentine and base metals.

**EASY to USE**

CLEARFIL SE BOND is composed of two, single-liquid components: self-etching PRIMER and light-curing BOND. No mixing is required before application. The self-etching primer simultaneously etches and conditions dentine and cut enamel. After applying the primer and allowing it to sit briefly, the bond is then applied and light-cured.

**QUICK to USE**

CLEARFIL SE BOND is a simplified bonding system, meaning no separate acid-etching step is performed. Time-consuming rinsing and attention to surface moisture levels and change of cotton pads is not required. Both procedural steps help to save your time: the self-etching primer is applied for 20 seconds, and the bond light-cured for 10 seconds.

**Bond Strength to Human Uncut Enamel**

CLEARFIL SE BOND offers a unique new dispenser called “Intelly-Case” that allows quick, single-handed delivery of both PRIMER and BOND. The Intelly-Case is easy to store and also avoids finger contact with the contents, which helps to prevent possible skin irritations and dermatological effects.

**Bond Strength to Bovine Enamel and Dentine**

CLEARFIL SE BOND is a simplified bonding system, meaning no separate acid-etching step is performed. Time-consuming rinsing and attention to surface moisture levels and change of cotton pads is not required. Both procedural steps help to save your time: the self-etching primer is applied for 20 seconds, and the bond light-cured for 10 seconds.

**CONVENIENT to USE**

CLEARFIL SE BOND provides high bond strength to compomer restoratives as well as composite resin restoratives. The bond strengths of compomer restorative to enamel and dentine when bonded with CLEARFIL SE BOND exceed those obtained when the restorative manufacturers’ recommended bonding systems were used.

**Marginal Sealing**

Microleakage testing results of 15 human molars showed zero or minimum microleakage. CLEARFIL SE BOND eliminates any of the enamel interfaces, and the dentine interfaces all showed zero or minimum microleakage. CLEARFIL SE BOND’s exceptional marginal sealing performance translates into long-term strength and excellent esthetics with all light-cure restorations.

**Comparison of Procedural Steps**

The following table shows the comparison of procedural steps with other bonding systems.

**Self-etching system**

- **CLEARFIL SE BOND**
  - PRIMER
  - BOND
  - RESTORATION
  - Apply PRIMER and leave for 20 seconds
  - Do not rinse
  - Apply BOND and distribute evenly with mild air flow
  - Light-cure for 10 seconds
  - Place composite or compomer restorative and light-cure

**Wet-bonding system**

- **CLEARFIL SE BOND**
  - PRIMER
  - BOND
  - Wet-bonding system
  - **A**
    - Prepared
    - 10 sec.
    - Dry
    - Apply PRIMER, Air
    - Light-cure 10 min.
  - **B**
    - Prepared
    - 10 sec.
    - Dry
    - Apply PRIMER, Air
    - Light-cure 10 min.
  - **C**
    - Prepared
    - 10 sec.
    - Dry
    - Apply PRIMER, Air
    - Light-cure 10 min.
  - **D**
    - Prepared
    - 10 sec.
    - Dry
    - Apply PRIMER, Air
    - Light-cure 10 min.
  - **E**
    - Prepared
    - 10 sec.
    - Dry
    - Apply PRIMER, Air
    - Light-cure 10 min.