

GLEARFIL SE BOND





RESIN-BASED DENTAL ADHESIVE SYSTEM

The new generation self-etching bonding system

CLEARFIL SE BOND incorporates a new-generation version of the proven self-etching primer found in CLEARFIL LINER BOND series, plus a simple, rapid curing bond component. CLEARFIL SE BOND is a two-step, light-curing bonding system that significantly reduces procedural time, while still providing excellent strength and sealing performance for light-cured restorations. CLEARFIL SE BOND is suitable for the following restorative procedures:

- •Direct filling restorations using light-curing composite or compomer
- Cavity sealing as a pretreatment for indirect restorations
- Treatment of hypersensitive and/or exposed root surfaces
- Intraoral 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 or cured composite resin



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







CLEARFIL SE BOND is a true two-step bonding system, meaning no separate acidetching step is performed*1, and no time-consuming rinsing (and attention to surface moisture levels) is required. Both procedural steps are fast: the self-etching PRIMER is applied for 20 seconds, and the BOND light-cured for 10 seconds.

*1 Uncut enamel requires phosphoric acid etching.



CONVENIENT to USE

CLEARFIL SE BOND has a unique new Outer case that allows quick, single-handed delivery of both PRIMER and BOND. The Outer case is easy to store and also minimizes finger contact with the contents, which helps prevent possible skin irritation.



Comparison of Procedural Steps

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

	Self-etching primer system	on or procedural steps with wet boliding systems.
	Primer	Bond ·
CLEARFIL SE BOND	Dispense,apply 20sec. Dry Apply.dr	N Light-cure 10sec.
	•Wet bonding system	
	Etching	Bond
Single Bond	Dispense,apply 15sec. Wash Dry	Dispense,apply 2 times,dry Light-cure 10sec.
One Step	Dispense,apply 15sec. Wash Dry	Dispense,apply 2 times,dry Light-cure 10sec. Apply,dry
Prime&Bond NT	Dispense,apply 15sec. Wash	Dry Dispense,apply 20sec. Dry Light-cure 10sec.
Gluma One Bond	Dispense,apply 20sec. Wash	Dry Dispense,apply 2 times,dry Light-cure 20sec.
Syntac Single Componen	t Dispense,apply 15sec. Wash Dry	Dispense,apply 20sec. Dry Light-cure 20sec. Apply,dry Light-cure 20sec.

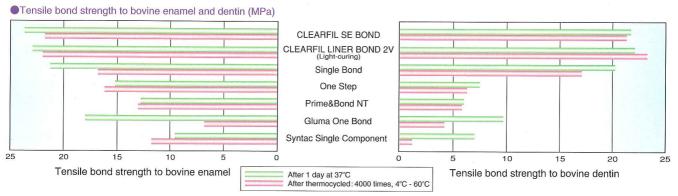


CLEARFIL SE BOND PRIMER and BOND both contain the proven adhesive monomer MDP (10-Methacryloyloxydecyl dihydrogen phosphate), as used in the PANAVIA and CLEARFIL LINER BOND series. MDP provides high bond strength and long-term bond durability to enamel, dentin and base metals.

The BOND component of CLEARFIL SE BOND contains approximately 10% of microfiller for added strength and stability.

■Bond strength to Bovine Enamel and Dentin

CLEARFIL SE BOND produces extremely high and durable bond strength to both enamel and dentin.



Bond Strength to Human Uncut Enamel

The results of micro-tensile bond tests to uncut (unground) human enamel are shown here.

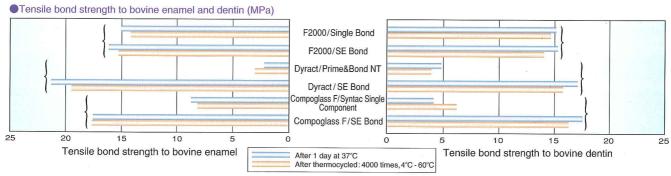
CLEARFIL SE BOND—without phosphoric acid etching—shows bond strength to uncut enamel equal to or exceeding that of a "wet bonding" system. This suggests that CLEARFIL SE BOND will perform well even if small sections of uncut enamel are present in a preparation.

· ·	Unground
CLEARFIL SE BOND	17.9±5.4
CLEARFIL LINER BOND 2V	12.3±2.2
Single Bond	14.8±4.2

Data of Tsurumi University. Kida K *et.al.* (1999). Bond Strength of Resin Systems to Unground Enamel. J Dent Res 78:233 (Abstr 1017)

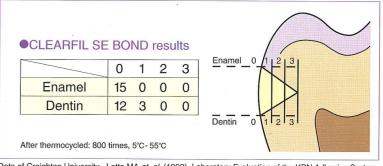
■Bond Strength to Compomer Restoratives

CLEARFIL SE BOND provides high bond strength to compomer restoratives as well as composite resin restoratives. In this test, the bond strength of compomer restoratives to enamel and dentin when bonded with CLEARFIL SE BOND exceeded those obtained when the restorative manufacturers' recommended bonding systems were used.



Marginal Sealing

Microleakage testing results of 15 human molars with V-shaped defects, restored CLEARFIL SE BOND thermocycled, are shown here. Note that microleakage could not be observed in any of the enamel interfaces, and that the dentin interfaces all showed zero or minimum microleakage. Exceptional marginal sealing performance CLEARFIL SE BOND translates into long-term strength and excellent aesthetics with light-cure restorations.



Data of Creighton University. Latta MA *et. al.* (1999). Laboratory Evaluation of the KBN Adhesive System. J Dent Res 78:392 (Abstr 2293)

CLEARFIL SE BOND



Kit components:

Primer

(6 ml) (5 ml)

Bond

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- Outer case
- Disposable brush tips (50 pieces x 2)
- Brush tip handle
- Mixing plate
- Light-blocking plate

Indications:

- Direct filling restorations using light-curing composite or compomer
- Cavity sealing as a pretreatment for indirect restorations
- Treatment of hypersensitive and/or exposed root surfaces
- Intraoral 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 or cured composite resin

Versatile dual-cure bonding system

CLEARFIL LINER BOND 2

CLEARFIL LINER BOND 2V is suitable for a wider range of applications thanks to its dual-cure capability (with the addition of BOND LIQUID B).



Indications:

- Light-curing composite restorations
- Chemical-curing composite restorations
- Hypersensitivity treatment
- Pretreatment cavity sealing for indirect restorations
- Bonded amalgam restorations
- Intraoral repair of fractured porcelain restorations using light-curing composite
- Cementing porcelain or composite inlays/onlays using resin cement
- Bonding to metal and porcelain when used with CLEARFIL PORCELAIN BOND ACTIVATOR and ALLOY PRIMER

Available Separately



Chemical-cure component CLEARFIL LINER BOND 2V Bond Liquid B (3ml)

Related products



Light-curing universal composite CLEARFIL AP-X



Light-curing low viscosity composite CLEARFIL LINER BOND 2 PROTECT LINER F (2ml)



Silane coupling agent
CLEARFIL
PORCELAIN BOND
ACTIVATOR (4ml)



Metal adhesion primer ALLOY PRIMER (5ml)

NOTE: Please read Instructions for Use thoroughly before using the products. CLEARFIL and PANAVIA are trademarks of Kuraray Co.,Ltd. Single Bond and F2000 are trademarks of 3M Dental Products. One Step is a trademark of Bisco, Inc. Prime&Bond NT and Dyract are trademarks of Dentsply International Inc. Gluma One Bond is a trademark of Heraeus Kulzer. Syntac Single Component and Compoglass F are trademarks of Vivadent Ets.

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