THE GOLD STANDARD IS NOW A TRULY UNIVERSAL ADHESIVE!

From the Developers of the original MDP Adhesion Monomer, the First Self-Etch Bonding Agents, the First Total-Etch Bonding Agents and the First Self-Adhering Resin Cements In Dentistry.

THE BEST JUST GOT BETTER!

- New Catalyst Chemistry for Stronger Bonds
- New CLEARFIL DC Activator for Universal Applications
- Exceptional, Long-Term, Independent Clinical Studies
- Simple, Proven Procedure: No Hidden Steps
- Ideal for Bulk-Fill Composites
- Low Film Thickness for Indirect Restorations
- Stable & Durable Surface Treatments For Zirconia, Etchable Ceramics & Metal Restorations
NEW CATALYST CHEMISTRY PROVIDES EVEN STRONGER BOND STRENGTHS

A new integrated photo-initiator chemistry provides more free radicals when curing which relates to higher monomer conversion rates and stronger bonds.

Since 1999...

CLEARFIL SE BOND has improved the quality of adhesion dentistry.

Now we present CLEARFIL SE BOND 2 a two-step, self-etch, light-cure bonding agent with an improved catalyst system for stronger bonds and a new dual-cure activator for use with all indirect restorations and core build-up composites.

With the same clinical procedure, it is a simple upgrade to our new universal system.
EXCEPTIONAL, UNPARALLELED, LONG-TERM CLINICAL RESEARCH RESULTS

The CLEARFIL Self-Etch Adhesives Have An Exceptional Long-Term, Clinical Research History with Cervical Erosion & Class-V Restorations.

The Clinical Studies Range from 5 year to 10 Year Recalls with Retention Rates of 91% to 100%.

**Fig. 3** 8-Year Clinical Evaluation, Class-V Restorations

**Fig. 4** 5-Year Cervical Lesions Retention Rates

Data courtesy of Dr. Van Meerbeek, KU Leuven BIOMAT.

Data courtesy of Dr. Turkun, Ege University School of Dentistry.

* Not a trademark of Kuraray Co., Ltd

**Fig. 5** 6-Year Cervical Lesions Retention Rate

Data courtesy of Dr. Kubo, Nagasaki University.

**Fig. 6** 10-Year Clinical Retention Rates of Cervical Lesions

Data courtesy of Dr. Yamauti, Universidade Federal do Ceara.

References:
IDEAL FOR BULK-FILL COMPOSITES

CLEARFIL SE BOND 2 has excellent initial bond strengths to dentin (With the Original MDP Adhesive Monomer) & the ideal adhesive layer to withstand the increased polymerization stress with bulk-fill composites. This ideal combination is able to provide GAP-FREE dentin margins when bulk-fill composites are used.

Fig. 7 Optical coherence tomography (OCT) images of the bonding interface with composite

OCT can be used for quantitative and qualitative assessment of composite restorations. This technique can be used in real-time, thereby imaging gaps at the adhesive interface.

SIMPLE, PROVEN PROCEDURE - AVOID TECHNIQUE SENSITIVITY: NO HIDDEN STEPS

CLEARFIL SE BOND 2 has no complicated steps, no-bottle shaking, no-scrubbing before or during the procedure; it reduces human error. It is truly a low technique sensitive adhesive that helps clinicians create predictable, durable bonds with every clinical case.

<table>
<thead>
<tr>
<th>CLEARFIL SE BOND 2</th>
<th>OptiBond XTR**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primer Scrubbing</td>
<td>NOT REQUIRED</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Shake Bond (Adhesive) Bottle</td>
<td>NOT REQUIRED</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Bond (Adhesive) Scrubbing</td>
<td>NOT REQUIRED</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Light curing adhesive for internal surface of indirect restorations</td>
<td>NOT REQUIRED</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Light-curing is optional if NX3 resin cement is used for cementation. ** Not a trademark of Kuraray Co., Ltd
LOW FILM THICKNESS FOR INDIRECT RESTORATIONS

For indirect restorations, simply mix 1 drop of CLEARFIL SE BOND 2 Bond with 1 drop of CLEARFIL DC Activator. The film thickness of the mixture after air-drying is approximately 3-5 µm and there is no concern about seating restorations.

CLEARFIL SE BOND 2 Bond with CLEARFIL DC Activator shows high bond strength to tooth with and without light-curing due to the unique technology; the acceleration of the polymerization starts at bond-cement interface on contact.

STABLE & DURABLE SURFACE TREATMENTS FOR ALL-CERAMIC RESTORATIONS

The CLEARFIL SE BOND 2 Primer contains a high concentration of the original MDP Adhesion Monomer and is used to treat the surface of zirconia and metal restorations. It does not require light-curing, thus, eliminating the concern of film thickness under indirect restorations. Some “Universal” systems require light-curing of the adhesives inside of prosthetic restorations. Many independent research studies have shown that the original MDP adhesive monomer provides the most durable adhesion to metal oxide ceramics (zirconia and alumina).

Fig. 8 Tensile bond strength to tooth structure with resin cements
*CLEARFIL SE BOND 2 BOND was mixed with CLEARFIL DC Activator. **Not a trademark of Kuraray Co., Ltd
Source: Kuraray Noritake Dental Inc.

Fig. 9 Tensile bond strength to restorations with cementing materials after thermal-cycling 4000 times
*CLEARFIL SE BOND 2 Primer was applied to Zirconia, mixture of CLEARFIL SE BOND 2 Primer and Porcelain Bond Activator was applied to Porcelain
**Adhesive of OptiBond XTR was applied to Zirconia and Porcelain. Not a trademark of Kuraray Co., Ltd
Source: Kuraray Noritake Dental Inc.
BASIC PROCEDURES

Direct Restoration
Follow the standard procedures for isolation, moisture control, cavity preparation and pulp protection.

1. Apply PRIMER*
2. Dry with mild air
3. Apply BOND
4. Make a uniform bond film using a gentle air flow
5. Light-cure*
6. Place composite resin

*Before applying PRIMER, selective enamel etch by phosphoric acid is an option.

*Refer to the table for light-curing time in the Instructions for Use.

Indirect Restoration
Clean and dry the tooth surface, and then trial fit the prosthetic restoration.

1. Apply PRIMER*
2. Dry with mild air
3. Apply the mixture of BOND and CLEARFIL DC Activator
4. Dry with mild air*
5. Cement using a resin cement

*Before applying PRIMER, selective enamel etch by phosphoric acid is an option.

*Light-curing the mixture is an option for optimum performance.

ORDERING INFORMATION

#3270KA CLEARFIL SE BOND 2 Kit
- 1 PRIMER (6ml)
- 1 BOND (5ml)
- 1 Dispensing dish
- 1 Light-blocking plate
- 1 Outer case
- 1 Applicator brush (fine 50 pcs)

#3272KA CLEARFIL SE BOND 2 VALUE PACK
- 3 PRIMER (6ml)
- 3 BOND (5ml)

#3281KA CLEARFIL SE BOND 2 Bond
- 1 BOND (5ml)

#3282KA CLEARFIL SE BOND 2 Primer
- 1 PRIMER (6ml)

#3286KA CLEARFIL SE BOND 2 Unit Dose: Standard Pack
- 50 Unit Dose: Bond (0.1ml)
- 50 Unit Dose: Primer (0.1ml)
- 2 x 50 Applicator brushes

#3250KA CLEARFIL DC Activator
- 1 Activator (4ml)

#061KA CLEARFIL PORCELAIN BOND ACTIVATOR
- 1 Activator (4ml)

Warranty: Kuraray Noritake Dental Inc. will replace any product that is proved to be defective. Neither Kuraray Noritake Dental Inc. nor the distributor accepts liability for any loss or damage, direct, consequential or special, arising out of the application or use of or the inability to use these products. Before using, the user should determine the suitability of the products for the intended use and the user assumes all risk and liability whatsoever in connection therein. CLEARFIL SE BOND 2, CLEARFIL DC Activator and Kuraray Noritake Dental Inc. products are available only through Kuraray Authorized dealers.

“CLEARFIL” is a trademark of KURARAY Co., Ltd.