APPLY AND PROCEED

CLEARFIL™ Universal Bond Quick
THE DENTAL BONDING THAT WORKS INSTANTLY*

NO WAITING, NO EXTENSIVE RUBBING, NO MULTIPLE LAYERS.

* Please follow the Instructions for Use
** APPLY with a rubbing motion and PROCEED
CLEARFIL™ Universal Bond Quick from Kuraray Noritake Dental is a universal bonding that works instantly. Just apply, dry and light cure. That’s all. No waiting, no multiple layers, no extensive rubbing time. Instead CLEARFIL™ Universal Bond Quick uses Kuraray Noritake Dental’s rapid bond technology to achieve lasting bond strength in one simple procedure.

**Uniform results, optimum adhesion**
We are the developer of some world’s innovative and advanced dental bonding agents and cements such as CLEARFIL™ SE BOND and PANAVIA™. With CLEARFIL™ Universal Bond Quick, we have combined all our expertise and technology to create a new dental bonding agent that delivers a faster, consistent and lasting result.

**Predictable results**
CLEARFIL™ Universal Bond Quick offers dentists a predictable single-step procedure. There is no need to wait for bonding penetration, multiple layer application or extensive rubbing time. Instead you can achieve a striking optimum result.

APPLY AND PROCEED
CLEARFIL™ Universal Bond Quick reliably bonds all direct restorations, core build-ups and even indirect restorations and repairs. Unlike other one-bottle universal adhesives which utilize ‘slow monomers’ which need time to penetrate, there’s no need to wait for it to penetrate the dentin before you proceed.

**Rapid bond technology**
Our rapid bond technology combines our MDP monomer with new hydrophilic amide monomers which work together to deliver optimal stability and resistance to moisture for a lasting result. MDP monomer creates a strong chemical bond to hydroxyapatite. Having been in use for more than 20 years, MDP has a proven excellence in adhesion.

Our new hydrophilic amide monomers offer both optimal penetration due to its high hydrophilicity before curing AND optimal stability due to its highly cross linked polymer network after curing.

**Prepared dentin with smear layer.**
*Due to its hydrophilicity we need a very hydrophilic bonding to be able to optimally penetrate the dentin.

**Dentin bonded with CLEARFIL™ Universal Bond Quick.**
*During curing CLEARFIL™ Universal Bond Quick creates a highly cross linked polymer network. As a result of this network, the bonding has a very low water absorption which gives a long lasting restoration.
PROCEDURAL FREEDOM

CLEARFIL™ Universal Bond Quick also has excellent curing properties, enabling a highly cross linked polymer network inside the bonding. The result is a strong adhesive that creates a lasting, durable bonding layer that has a very low water absorption.

Unlike traditional dental bonding agents that require waiting time, extensive rubbing and multiple layers in order to deliver an optimum result, with CLEARFIL™ Universal Bond Quick your restorative procedures are carried out to the exceptionally high standards.

Exceptional levels of adhesion also result in a bond that lasts with minimal risk of remedial work in the future. And, because there’s no need to wait before you go ahead, procedures take less time than with most other available bondings, benefiting both patient and practitioner.

DATA COMPILED FROM RESPECTIVE MANUFACTURER’S INSTRUCTION FOR USE.
<table>
<thead>
<tr>
<th>TOTAL-ETCH adhesives</th>
<th>SELF-ETCH adhesives</th>
</tr>
</thead>
</table>
| **CLEARFIL™ Universal Bond Quick**  
Kuraray Noritake Dental | **CLEARFIL™ S3 BOND PLUS**  
Kuraray Noritake Dental |
| **Adper Scotchbond 1 XT***  
3M ESPE | **Adper Prompt L-Pop***  
3M ESPE |
| Apply 2-3 coats, agitate for 15 seconds with gentle agitation  
Gently air thin for 5 seconds  
Light cure for 10 seconds | Massage it in for 15 seconds, applying pressure. Apply a second coat after dry  
Use a gentle stream of air to thoroughly dry the adhesive to a thin film  
Light cure for 10 seconds |
| **OptiBond Solo Plus***  
Kerr | **OptiBond All-In-One***  
Kerr |
| Apply for 15 seconds, using light brushing motion  
Air thin for 3 seconds  
Light cure for 20 seconds | Apply twice with brushing motion for 20 seconds each time  
Dry with gentle air first and then medium air for at least 5 seconds  
Light cure for 10 seconds |
| **ExiTE F***  
Ivoclar Vivadent |  |
| Apply and agitate for at least 10 seconds  
Disperse to a thin layer with a weak stream of air  
Light cure for 10 seconds |  |
| **Prime&Bond NT***  
Dentsply |  |
| Apply and remain undisturbed for 20 seconds  
Gently drying with clean, dry air from a dental syringe for at least 5 seconds  
Light cure for 10 seconds |  |
THIN FILM LAYER

CLEARFIL™ Universal Bond Quick comprises a thin film layer of just 5 to 10 µm making it aesthetically pleasing even in the most demanding anterior restorations. Its innovative new hydrophilic amide monomers create a lot of crosslinks to improve the stability of the thin film thickness. This in turn delivers a superior bonding layer which is resistant to moisture and it shows good esthetics at margin of anterior restorations.

Before

After

Before and after pictures courtesy of dentist A. Swart, Alkmaar, The Netherlands
A TRULY UNIVERSAL BOND

Thanks to CLEARFIL™ Universal Bond Quick, it is really easy to make direct composite or compomer restorations. Simply use it the way you want. Self-etch, selective-etch or total-etch. You decide. But whichever way, CLEARFIL™ Universal Bond Quick delivers optimum results without the need to wait. Just apply and proceed.

CLEARFIL™ Universal Bond Quick can be used with almost all composite materials and also in cases where dual curing materials are required, for instance in post and core procedures. Mixing with CLEARFIL™ DC ACTIVATOR is required for dual curing materials, however this is not applicable when using it with CLEARFIL™ DC CORE PLUS or PANAVIA™ SA Cement Plus. It also acts as an excellent surface conditioner when priming indirect materials such as zirconia, glass-ceramics or metals or during intra-oral repairs. Just apply and proceed.
**RESEARCH**

**Optimal dentin bonding**

By introducing rapid bond technology we are assured of a quick developing and tight bonding to the materials we want to bond to. Especially to dentin, being the most challenging substrate. Rapid bond technology used in CLEARFIL™ Universal Bond Quick is proven to be very effective. A tight seal of the dentin without any voids is the result.

Using either self-etch or total-etch show a tight interaction zone between the bonding and the dentin. No voids were seen.

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**UCL-DRIM-STUDY**

**Bonding effectiveness of a novel bonding (CLEARFIL™ Universal Bond Quick) to dentin**

In this study the bond strength was tested between human dentin and composite. Shear bond strength of the bonding interface was measured. Three universal all-in-one and two self-etch 2-component bonding systems were tested. Samples were stored in distilled water for 24 hours at 37°C.

Study performed by UCL_DRIM, Louvain la Neuve, Belgium, 2016

“Among the all-in-one universal alternatives, the new CLEARFIL™ Universal Bond Quick technology appears equally efficient despite the absence of waiting time after application, making it a more user-friendly and more convenient option than its competitors.”

*Dr. Julian G. Leprince, Cliniques universitaires Saint-Luc UCL, Bruxelles*
**In this research, CLEARFIL™ Universal Bond Quick is applied with a rubbing motion for 3 seconds.**

**BOND STRENGTH**

To enamel (total-etch) and to enamel and dentin (self-etch)

**Tensile bond strength to bovine enamel (total-etch)**

<table>
<thead>
<tr>
<th>Product</th>
<th>MPa</th>
<th>37°C, 1 day</th>
<th>TC 4.000</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLEARFIL™ Universal Bond Quick**</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLEARFIL™ Universal Bond</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adhese Universal*</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scotchbond Universal*</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prime&amp;Bond Elect*</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Shear bond strength to bovine teeth (self-etch)**

<table>
<thead>
<tr>
<th>Product</th>
<th>MPa</th>
<th>Enamel (24h, 37°C)</th>
<th>Dentin (24h, 37°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLEARFIL™ Universal Bond Quick**</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLEARFIL™ Tri-S BOND PLUS</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G-Premio Bond*</td>
<td>25</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scotchbond Universal*</td>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prime&amp;Bond Elect*</td>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ALL-BOND UNIVERSAL*</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Futurabond U*</td>
<td>5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Kuraray Noritake Dental Inc. [Balanced Method] * Not a trademark of Kuraray Noritake Dental

**In this research, CLEARFIL™ Universal Bond Quick is applied with a rubbing motion for 3 seconds.**
WIDE INDICATION RANGE

✔ Direct restorations using light-cured composite resin
✔ Cavity sealing as a pretreatment for indirect restorations
✔ Treatment of exposed root surfaces
✔ Treatment of hypersensitive teeth
✔ Intraoral repairs of fractured restorations
✔ Post cementation and core build-ups
✔ Cementation of indirect restorations

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
<th>Self-etch</th>
<th>Total-etch/ Selective-etch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid etching</td>
<td>-</td>
<td>10 sec.</td>
</tr>
<tr>
<td>Bond application</td>
<td>Apply with rubbing motion; No waiting time needed</td>
<td>Apply with rubbing motion; No waiting time needed</td>
</tr>
<tr>
<td>Air-dry</td>
<td>5 sec.</td>
<td>5 sec.</td>
</tr>
<tr>
<td>Light cure</td>
<td>10 sec.*</td>
<td>10 sec.*</td>
</tr>
<tr>
<td>Total application time</td>
<td>15 sec.</td>
<td>25 sec.</td>
</tr>
</tbody>
</table>

*5 sec. for high power LED (Light intensity: more than 1500 mW/cm²)
PRODUCT ASSORTMENT

BOTTLE STANDARD KIT
#3571-EU Bottle (5 ml),
K-ETCHANT Syringe (3 ml),
Applicator Brush (x 50 pcs),
Needle Tip (x 20 pcs),
Mixing Dish, Light Blocking Plate

UNIT DOSE STANDARD PACK
#3577-EU Unit Dose (50 pcs x 0.1 ml),
K-ETCHANT Syringe (3 ml),
Applicator Brush (x 50 pcs),
Needle Tip (x 20 pcs)

BOTTLE REFILL
#3572-EU Bottle (5 ml)

CLEARFIL™ DC ACTIVATOR
#3250- EU 1 bottle (4 ml)

BOTTLE VALUE PACK
#3574-EU Bottle (3 x 5 ml)

K-ETCHANT SYRINGE
#3252- EU K-ETCHANT Syringe (2 x 3 ml),
Needle Tip (x 40 pcs)
Needle Tips
#3253- EU Needle Tip (x 20 pcs)

Discover more at kuraraynoritake.eu/cubq