

**kuraray**

*Noritake*

**CLEARFIL™ Universal Bond Quick 2**

# The effortless bond



—  
Our Next-Generation  
Adhesive



# Our Next-Generation Adhesive

## CLEARFIL™ Universal Bond Quick 2

CLEARFIL™ Universal Bond Quick 2 is the latest advancement in universal bonding from Kuraray Noritake Dental Inc. Building upon the trusted performance of its predecessor, this next-generation adhesive incorporates innovative technology that delivers a host of remarkable benefits. Thanks to this advanced technology, CLEARFIL™ Universal Bond Quick 2 offers enhanced flowability, effortless application with no waiting time or rubbing, and storage at room temperature. All while enhancing strength and resistance to shrinkage. Experience our next-generation adhesive!



# Choose CLEARFIL™ Universal Bond Quick 2

## IMPROVED STRENGTH

The added urethane tetra methacrylate monomer improves the strength of the bonding layer itself. The result is an increased resistance to shrinkage forces.

## ENHANCED FLOWABILITY

Enhanced flowability provides for even spreading, creating a thin, uniform bonding layer. This minimizes the risk of pooling thus maintaining the original morphology of the preparation.

## EFFORTLESS APPLICATION

CLEARFIL™ Universal Bond Quick 2 is very easy to apply. No waiting time or need for rubbing. The new filler dispersion method used makes it possible to enhance the products' flowability without lowering the filler content.

## STORAGE AT ROOM TEMPERATURE

The adhesive can be stored at room temperature (2-25°C) and eliminates the need for shaking. Hence, it is always ready for immediate use, fitting seamlessly into your practice.

## FLEXIBLE IMPLEMENTATION

Suitable for both direct and indirect restorations, as well as core build-up procedures, this adhesive provides the flexibility needed for a wide range of clinical scenarios. It is also compatible with self adhesive cements from other manufacturers, offering you greater choice.



SCAN FOR MORE INFORMATION ABOUT CLEARFIL™ Universal Bond Quick 2



# The complex technology behind simplicity

At Kuraray Noritake Dental Inc., we have refined our monomer technology to deliver exceptional bonding performance with minimal effort. Our proprietary **Advanced Rapid Bond Technology** combines three key monomers to create a powerful adhesive that supports both ease of use and long-lasting results.



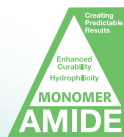
## Original MDP Monomer

The MDP monomer, invented by KURARAY CO., LTD., provides unmatched bonding strength to hydroxyapatite and a wide range of other materials, including zirconia. For an excellent bond that performs consistently over time.



## Amide Monomer

This highly hydrophilic monomer allows for rapid penetration into the tooth structure, eliminating the need for waiting after application. It forms a stable, hydrophobic cross-linked network during polymerization for a strong and durable bond.



## Urethane Tetra

### Methacrylate (UTMA) Monomer

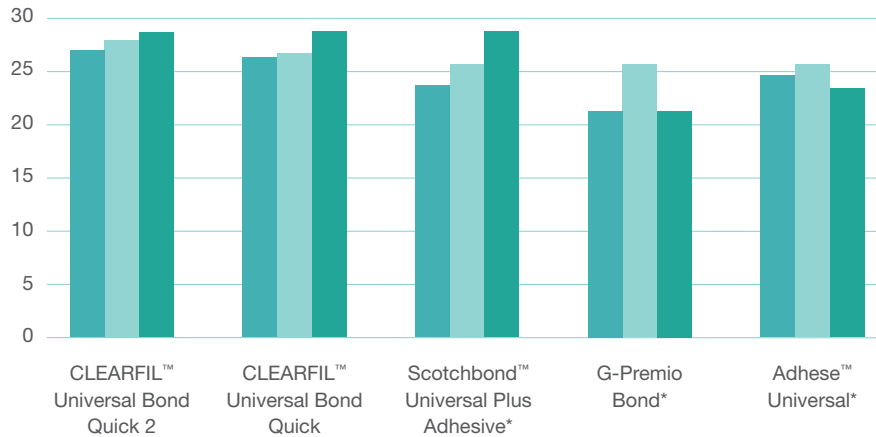
The Urethane Tetramethacrylate Monomer is a multifunctional monomer that provides for an increased strength of the bonding layer itself. The use of UTMA results in increased resistance to shrinkage forces and at the same time, allows for a thin bonding layer.



Together, these monomers form the foundation of **CLEARFIL™ Universal Bond Quick 2**, giving you a fast, dependable, and versatile adhesive for all your restorative needs.

# Performance you can trust

Shear Bond strength to human enamel (MPa)

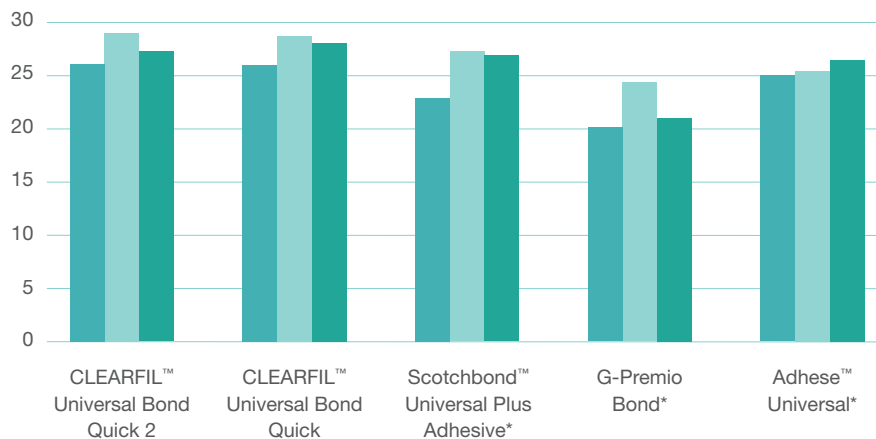


1 day  
TC5000  
TC20000

**Test conditions:**  
Human teeth #320  
Measured strength after 1 day of storage in 37°C water, or thermal cycle 5000 or 20000 times (5°C ↔ 55°C).  
Crosshead speed 0.5 mm/min  
N=10

\*Not a trademark of Kuraray Noritake Dental Inc. M Irie et. al., (Okayama University) The 42nd Annual Meeting of Japan Society for Adhesive Dentistry Poster P-16  
Source: Irie (Okayama university)

Shear Bond strength to human dentin (MPa)

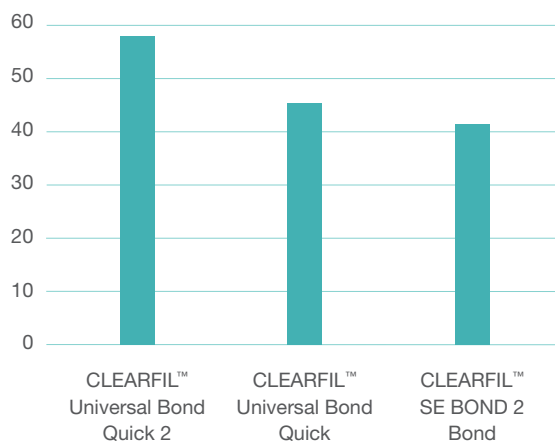


1 day  
TC5000  
TC20000

**Test conditions:**  
Human teeth #320  
Measured strength after 1 day of storage in 37°C water, or thermal cycle 5000 or 20000 times (5°C ↔ 55°C).  
Crosshead speed 0.5 mm/min  
N=10

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Source: Irie (Okayama university)

Ultimate tensile strength (MPa)



**Test conditions:**  
Silicone mold beam-shape 1.0×1.0×10.0 mm  
Light curing Of bonding materials  
24 hours dry storage  
Source: Dr. Hosaka (Tokushima University)



# Direct restorations workflow

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

## 1 Tooth pretreatment Choose either etching procedure

### a. Self-etching (Move to section 2)

**b. Selective-etching** Apply K-ETCHANT Syringe to the uncut and/or cut enamel, then rinse and dry



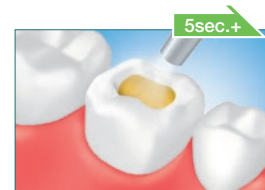
**c. Total-etching** Apply K-ETCHANT Syringe to the entire cavity (enamel and dentin), then rinse and dry



## 2 Apply BOND with a rubbing motion

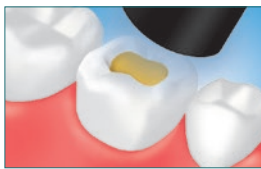


## 3 Dry by blowing mild air until BOND does not move<sup>1</sup>



<sup>1</sup> Use a vacuum aspirator to prevent BOND from scattering.

## 4 Light-cure<sup>2</sup>



<sup>2</sup> Refer to table on the right for the light-curing time.

## 5 Place composite resin, light-cure and finish



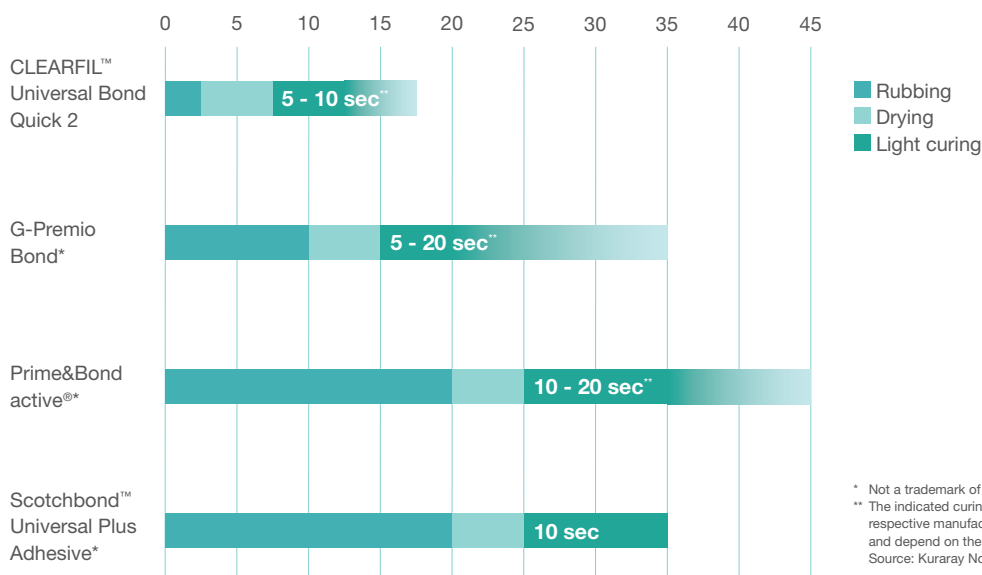
### Dental curing unit and curing time

Type	Light source	Light Intensity	Light-curing time
Halogen	Halogen lamp	More than 400 mW/cm <sup>2</sup>	10 seconds
LED	Blue LED*	800-1400 mW/cm <sup>2</sup>	10 seconds
		More than 1500 mW/cm <sup>2</sup>	5 seconds

The effective wavelength range of each dental curing unit must be 400-515nm.  
\*Peak of emission spectrum: 450-480nm

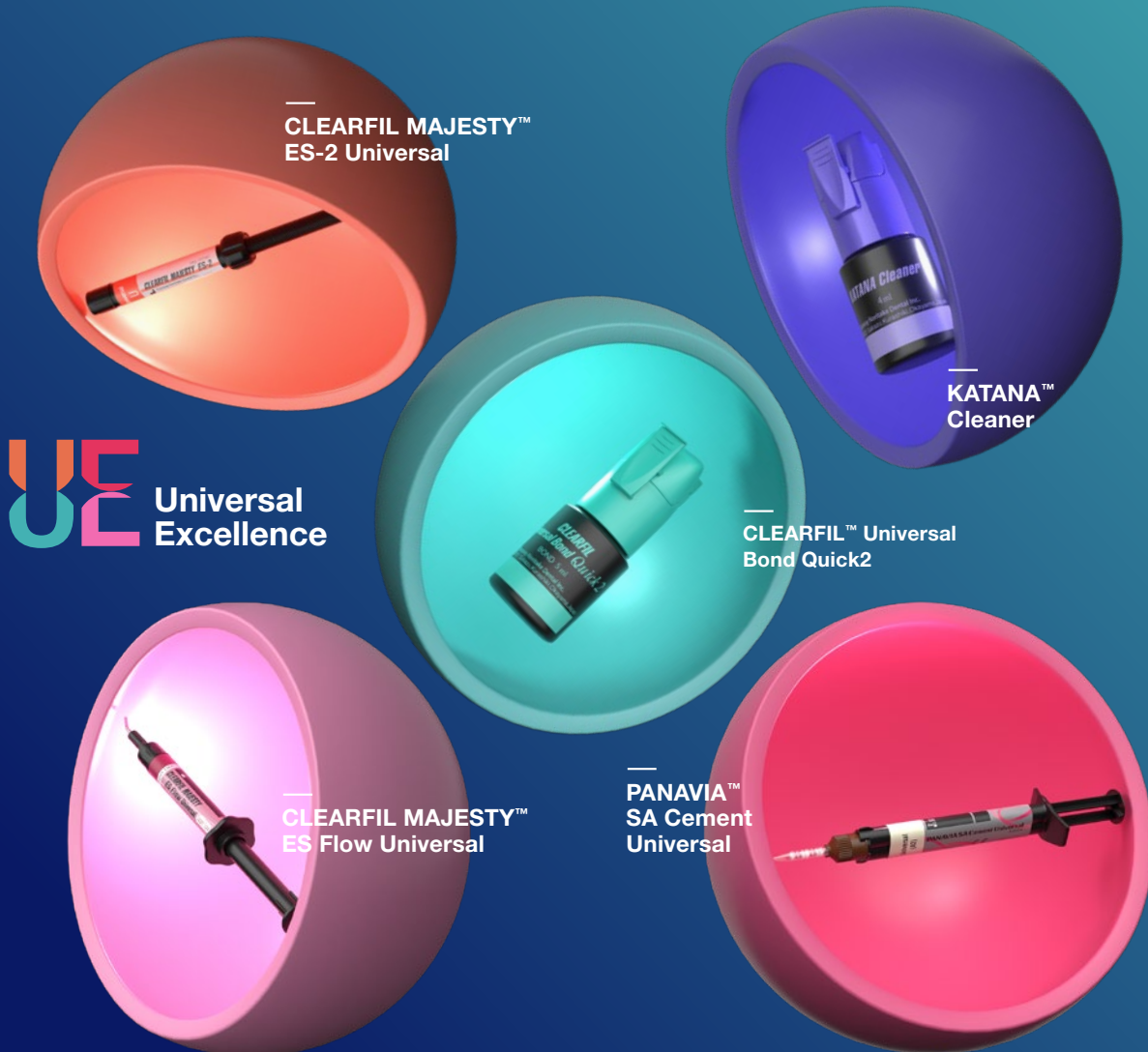
# How do we compare

## Treatment time comparison (Sec.)



# The heart of the universal portfolio

CLEARFIL™ Universal Bond Quick 2 is the connection between multiple products of our portfolio. It is also compatible with self adhesive cements from other manufacturers, offering you greater choice.



We recognize that balancing efficiency with quality is no small feat. That's why we're dedicated to creating solutions that bring both together — seamlessly. Our aligned products, developed with cutting-edge technology, offer intuitive handling and consistently reliable results. The goal? To free you up to focus on what truly matters.

This is Universal Excellence!

SCAN FOR MORE INFORMATION ABOUT Universal Excellence



# Ordering information

## CLEARFIL™ Universal Bond Quick 2

#4042-EU	Bottle Refill	1 bottle 5.0 ml
#4044-EU	Bottle Value Pack	3 bottle's 5.0 ml
#4046-EU	Unit Dose Standard Pack	50 Unit Dose 0.1 ml , 50 pcs applic. brush fine silver

## Universal Excellence Products

### CLEARFIL MAJESTY™ ES Flow Universal

#4600-EU	Low (U)	1 syringe 1.5 ml, 15 needle tips
#4601-EU	Low (UD)	1 syringe 1.5 ml, 15 needle tips
#4620-EU	Super Low (U)	1 syringe 1.5 ml, 15 needle tips
#4621-EU	Super Low (UD)	1 syringe 1.5 ml, 15 needle tips

### CLEARFIL MAJESTY™ ES-2 Universal

#3181-EU	Universal (U)	1 syringe 2.0 ml
#3183-EU	Universal Light (UL)	1 syringe 2.0 ml
#3184-EU	Universal Dark (UD)	1 syringe 2.0 ml
#3182-EU	Universal White (UW)	1 syringe 2.0 ml
#3191-EU	Universal (U)	20 PLT's 0.25 g
#3193-EU	Universal Light (UL)	20 PLT's 0.25 g
#3194-EU	Universal Dark (UD)	20 PLT's 0.25 g
#3192-EU	Universal White (UW)	20 PLT's 0.25 g

### PANAVIA™ SA Cement Universal

#4202-EU	Handmix Universal (A2)	1 syringe 5.0 ml
#4203-EU	Handmix White	1 syringe 5.0 ml
#4204-EU	Handmix Translucent	1 syringe 5.0 ml
#4212-EU	Automix Universal (A2)	1 syringe 8.2g, 20 Mixing tips
#4213-EU	Automix White	1 syringe 8.2g, 20 Mixing tips
#4214-EU	Automix Translucent	1 syringe 8.2g, 20 Mixing tips

### KATANA™ Cleaner

#3970-EU	4.0 ml x 1 bottle
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## OTHER

### K-ETCHANT Syringe

#3252-EU	2 Syringes 3.0 ml, needle tip x 40 pcs
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Your contact

### Kuraray Europe Benelux, UK & Ireland

Margadantstraat 20, 1976 DN IJmuiden, The Netherlands  
PO-box 299, 1970 AG IJmuiden, The Netherlands  
info@kireland@kuraray.com  
Website [www.kuraraynoritake.eu](http://www.kuraraynoritake.eu)

EU Importeur

### Kuraray Europe GmbH

Philipp-Reis-Strasse 4,  
65795 Hattersheim am Main, Germany  
Phone +49 (0)69 305 35 835  
Fax +49 (0)69 305 98 35 835  
[www.kuraraynoritake.eu](http://www.kuraraynoritake.eu)  
[centralmarketing@kuraray.com](mailto:centralmarketing@kuraray.com)



- Before using this product, be sure to read the Instructions for Use supplied with the product.
- The specifications and appearance of the product are subject to change without notice.
- Printed color can be slightly different from actual color.

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**Kuraray Noritake Dental Inc.**  
1621 Sakazu, Kurashiki, Okayama 710-0801, Japan  
Website [www.kuraraynoritake.com](http://www.kuraraynoritake.com)

