

Noritako



Kuraray Noritake Dental Inc.



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,Kurashiki,Okay

# Simple & predictable

CLEARFIL<sup>™</sup> Universal Bond Quick 2 is the latest adhesive from Kuraray Noritake Dental, the innovative dental company that pioneered etching and chemically bonding dentin, as well as formulating the Original MDP adhesive monomer.

CLEARFIL<sup>™</sup> Universal Bond Quick 2 provides new chemistry for next generation single-bottle adhesive dentistry.

The proprietary Urethane Tetramethacrylate (UTM) technology helps to create a strong uniform bond layer.

ADVANCED

RAPIDBOND

TECHNOLOGY



# **Engineered to endure**

Combining MDP, Amide, and Urethane monomers, the bonding agent can bond to the dentin immediately without waiting time.

This new chemistry also enables a thin and easy application that does not affect the bond layer's strength.

# YDE

**MDP** MDP synthesized and refined independently by Kuraray Noritake Dental.



AMIDE Highly hydrophilic and, after polymerization, hydrophobic, and water-resistant.



URETHANE **TETRAMETHACRYLATE** 

The original multi-functional monomer provides an increase in the strength of the bond layer.

# Easy to apply independent of cavity morphology

Thin adhesive layer prevents adhesive pooling in margins and abutments, and creates a uniform bond layer. Applies thinly and disperses evenly.



Filled with CLEARFIL MAJESTY™ ES Flow/CLEARFIL™ Universal Bond Quick 2 and visualized with Scanning Electron Mic Scale: 10 Qm Source: Kuraray Noritake Dental Inc. ope (SEM)

# **CLEARFIL<sup>™</sup> Universal Bond Quick 2 exhibits high bond strength** in all etching modes.

Test conditions: Notched-edge shear bond strength to bovine teeth (ISO29022) Adherend surface: bovine enamel and dentin #600 polished surface, Coated area: 2.38 mm dia. Irradiator: PenCure 2000 standard mode. Stored in water at 37°C for 24 hours. Shear bond strength is measured by autograph (crosshead speed: 1mm/min)



Test Methods: Notched-edge shear bond strength to bovine teeth (ISO29022)

# Universal self-adhesive cement compatibility

Shear bond strength to tooth structure when used in combination with other self-adhesive cement.

Test conditions: adherend surface: human enamel or dentin #1000 polished surface adherend area: 3 mm dia. Irradiator: PenCure 2000 standard mode. Stored in water at 37°C for 24 hours. Shear bond strength is measured by autograph (crosshead speed: 1mm/min) **Control:** Control: Direct application to human dentin without pre-treatment





# **Key features**

- Quick Application & No Waiting Time
- Lower Film-Thickness
- Stronger Bond Layers
- Uniform Bond Layer (Prevents Pooling)
- Room Temperature Storage

\*Not a trademark of Kuraray Co., Ltd

Source: Kuraray Noritake Dental, Inc.

# Simplified, universal restorative system without separate activators \*



\*In cases where CLEARFIL" DC CORE PLUS and PANAVIA" SA Cement Universal are used. When using with other manufacturers products, please refer to the IFU for specific instructions.

# Ideal companion for immediate dentin sealing with a strong bond layer

Strong adhesive layer with higher mechanical strength will be an ideal companion to seal and protect dentin.

Test conditions: Samples (beam shape; 1.0 x 1.0 x 10 mm): 1) Light curing of bonding material with solvent distilled away 2) Stored in water at 37°C for 24 hours. 3) Ultimate tensile strength is measured by autograph (crosshead speed: 1mm/min)

## **Ultimate tensile strength**



K. Hosaka et. al., (Tokushima Univ.) The 159th Meeting the Japanese Society of Conservative Dentistry Program A7

# Direct restorations using light-cure composite resin





Light-cure\*2 4



Refer to Table below for light-curing time.

Dental curing unit and curing time			
Туре	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

gth range of ea ch dental curing unit must be 400-515nm. \*Peak of emission spectrum: 450-480nm

# **Ordering information**



Bottle Standard Kit -Bond (5ml) -K-ETCHANT Syringe (3ml) & 20 Needle Tips -Dispensing Dish -Light-Blocking Plate 50-Applicator Brushes (Fine Silver)



#4042-KA **Bottle Refill** -Bond (5ml)



#4044-KA Bottle Value Pack -Bonds (5ml each)



#4046-KA Unit Dose Standard Pack 50 Unit-Dose 1-K-Etchant Syringe (3ml) & 20 Needle Tip

50-Applicator Brushes (Fine Silver)

#4047-KA Unit Dose Value Pack 100 Unit-Dose 1-K-Etchant Syringe (3ml) & 20 Needle Tips 100-Applicator Brushes (Fine Silver)

# YOUR CONTACT

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- . 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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