# TOKUYAMA UNIVERSAL BOND

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Self-cured Dental Adhesive

**UNIVERSAL BOND** 

Tokuyama Dental

# **BONDING AGENTS!**



### 8<sup>th</sup> Generation or Universal Bonding Agents

Time-saving, cost-effective, reduced inventory

**Future trend:** The universal bonding agent category will become more and more relevant, as many dentists make the switch.



# **CHALLENGES!**

### Bond strength

Major issues with bonding agents are due weak adhesion occasioning to a failure restorations

### Sensitivity

Weak bond strength can cause post-op sensitivity

### Different protocols

Each material require different protocols, forcing doctor to buy extra products, resulting in inventory waste



TOKUYAMA UNIVERSAL BOND

### TOKUYAMA UNIVERSAL BOND ALL MATERIALS, ONE PROTOCOL BONDING EVERYTHING & THE KITCHEN SINK





- Self-etch, compatible with total-etch, and selective-etch techniques
- Compatible with light-cure, dual-cure and self-cure materials without use of additional activators
- Can be used as primer for silica-based, zirconia-based and metallic restorations
- Applicability to direct and indirect restoration (All primers and activators included)





# **TRUE UNIVERSAL**



• Direct anterior and posterior restorations with light-cure, dual-cure, and self-cure composite materials



• Intraoral repair of composite restorations, metal, porcelain fused to metal, and all ceramic restorations without an additional primer



• Cementation of indirect restorations and veneers when combined with light-cure, dual-cure, and self-cure resin cements



Bonding and repair of denture resin to metal bases, clasps, or attachments
Bonding of opaque resin to a metal base in the fabrication of resin-faced stainless steel crowns



• Bonding of core build-ups using core build-up materials



Applications	TOKUYAMA UNIVERSAL BOND	Scotchbond Universal Adhesive	G-Premio Bond	Futurabond U	All-Bond Universal	Clearfil Universal Bond	Prime & Bond Elect	Xeno Select	Adhese Universal	iBond Universal
Total-Etch, Self-Etch, Selective Etch	0							0	0	0
Compatible w/ all light-curing, dual-curing, or self curing composites	•	() *1	*2			6* 🛆	▲ *3	8		0
Direct Restorations										
Indirect Restorations		*1	▲ *3			<b>(</b> *6	▲ *3	$\bigotimes$		
Intraoral Repair			<b>(</b> *4		*4	<b>V</b> *7	▲ *4	⊗	8* 🛆	▲ *4
Primer for Prosthesis		<b>(</b> *1	$\bigotimes$	$\bigotimes$	<b>v</b> *5	6* 🛆	$\bigotimes$	$\bigotimes$	$\bigotimes$	*5

\*1 Requires Dual Cure Activator

\*2 Bonding of dual-cured core build up composites to tooth structure as long as these materials are light-cured

- \*3 Requires DCA
- \*4 Requires Primer
- \*5 Requires light-curing
- \*6 Requires DCA and light-curing
- \*7 Primer recommended
- \*8 Only composite repair





- High bond strength to ALL dental materials
- Virtually eliminates post-op sensitivity
- Cavity adaption without voids
- Performs with wide mixing ratios & margin for error







## **RELIABLE BOND STRENGTH**

Self-etch/Enamel





After 24 hrs



After 3,000 thermo-cycles

**UB:** TOKUYAMA UNIVERSAL BOND **BF:** TOKUYAMA BOND FORCE SU: Scotchbond Universal Adhesive AU: Adhese Universal FU: Futura Bond U **IB:** i Bond Universal

AB: All-Bond Universal **CU:** Clearfil Universal Bond GP: G-Premio Bond



### **RELIABLE BOND STRENGTH**





AU: Adhese Universal FU: Futura Bond U IB: i Bond Universal AB: All-Bond Universal CU: Clearfil Universal Bond GP: G-Premio Bond



UB

SU

FU

## **RELIABLE BOND STRENGTH**

IB

Indirect Composite

After 24 hrs

CU

AB

GP

### Precious metal



After 3,000 thermo-cycles

**UB:** TOKUYAMA UNIVERSAL BOND **BF:** TOKUYAMA BOND FORCE **SU:** Scotchbond Universal Adhesive AU: Adhese Universal FU: Futura Bond U IB: i Bond Universal AB: All-Bond Universal CU: Clearfil Universal Bond GP: G-Premio Bond



## **RELIABLE BOND STRENGTH**





Maintains performance under a wide range of mixing ratios, offering a wide margin for error.





Self-cure chemistry provides reliable bond in deep preparations, post and core-build ups that

### are difficult to reach with a curing light

	Bond A Components	Function	Bond B Components	Function	
	Phosphoric acid monomer (New 3D-SR Monomer)	Formation of bonding layer. Adhesion for tooth, zirconia,alumina, and non-precious metal	<b>γ-MPTES</b> (Ceramic Primer)	Silane Coupling Agent. Adhesion for glass ceramics and resin composite	UNIVERSITIESTE
	MTU-6 (Metal Primer)	Adhesion to precious metals	Borate	Polymerization catalyst	TOKUYAMA UNIVERSALBOND Soft-carve Dereal Aubesive
	HEMA	Penetration into tooth substance. Formation of bonding layer	Peroxide	Polymerization catalyst	BOND B UNIVERSIT
	Bis-GMA	Formation of bonding layer	Acetone	Solvent	ready and the second se
	TEGDMA	Formation of bonding layer	Isopropyl alcohol	Solvent	
	Acetone	Solvent	Water	Solvent	
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25 seconds application

Same protocol for every case and material 

No agitation

NO

LIGHT

CURE



Dispense 1 drop from each bottle into the same dimple of a mixing well.



Apply mixed bond. \*For indirect restorations, apply on both surfaces. Apply weak air (5 sec.), then medium air (5 sec.) until solvent evaporates. \*Air-dry both surfaces for indirect restorations. Place Restorative \*Apply cement for indirect restorations



# **Product Line**

Product #		Product Name	Product Information	
	15203	Universal Bond Kit	1x Bond A (5mL), 1x Bond B (5mL), 25 disposable applicator brushes, 15 disposable mixing wells, procedure guide, IFU	MSRP: \$142.00
	15213	Bond A Refill	1x Bond A (5mL), IFU	MSRP: \$67.50
	15218	Bond B Refill	1x Bond B (5mL), IFU	MSRP: \$67.50
	34650	Disposable Mixing Well	50 disposable mixing wells	MSRP: \$29.00

# **Frequently Asked Questions**

What is the film thickness of Tokuyama Universal Bond? The film thickness is 5 microns

Does the product requires refrigeration? Yes, Tokuyama Universal Bond requires storage under refrigeration (0-10°C/32-50°F). Tokuyama Dental recommends removing Tokuyama Universal Bond from the refrigerator 20 minutes before the first application. It may remain in room temperature throughout the day, but needs to be returned to refrigeration at the end of the day

What is the shelf life? The shelf life is two years after the date of production under refrigeration

What is working time after mixing?

3 minutes of working time when using Tokuyama Universal Bond mixing wells. When using a standard, more shallow mixing well, complete the application within one minute.





# **THANK YOU**

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