

# TOKUYAMA **UNIVERSAL BOND** **ALL MATERIALS, ONE PROTOCOL**



## **TRUE UNIVERSAL**

All materials, **one protocol**.  
No additional activators or primers



## **QUICK & EASY**

25-second application: **mix, apply, air-dry**.  
No light-cure, agitation, or wait time



## **RELIABLE**

High bond strength for direct  
and indirect restorations



## **SELF-CURE**

Worry-free polymerization where  
curing lights cannot reach



# TRUE UNIVERSAL

TOKUYAMA UNIVERSAL BOND is the only self-cure universal adhesive to bond all dental materials, while following the same short, simple protocol. Without the need to light-cure, agitate surfaces, use additional primers and activators or wait in between steps, the application time is only 25 seconds. Tokuyama Universal Bond virtually eliminates post-op sensitivity.



***Self-etch; compatible with total-etch and selective-etch techniques***



***Compatible with all light-cure, dual-cure, and self-cure materials without use of activators***

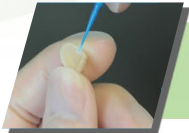


***Can be used as primer for silica-based, zirconia-based, and metallic restorations***

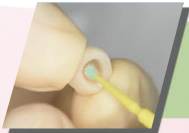
## Indications



- 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

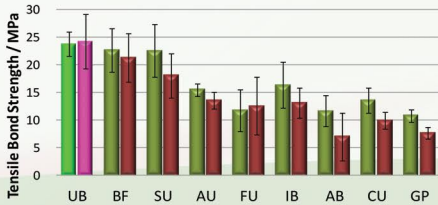




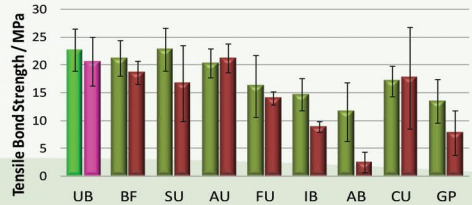
# RELIABLE BOND STRENGTH

Tokuyama Universal Bond offers high bond strength to polymerizable resin materials (resin cement, acrylic resin, and composite resin) and indirect restorative materials such as glass-ceramics (porcelain), oxide-ceramics (zirconia and alumina), metals (precious and non-precious), and resin materials including inorganic filler.

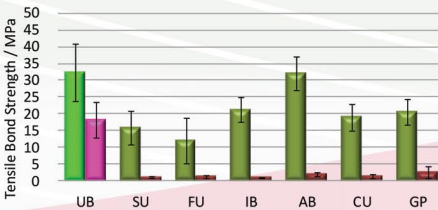
Self-etch/Enamel



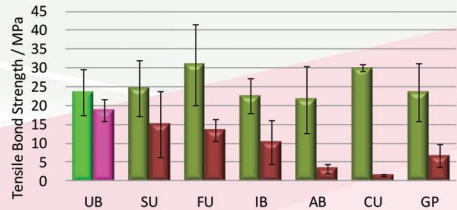
Self-etch/Dentin



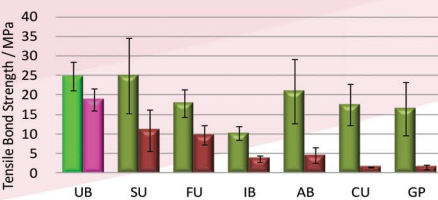
Ceramic



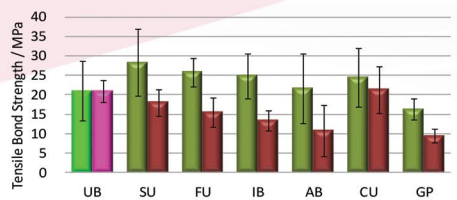
Zirconia



Indirect Composite



Precious Metal



● After 24 hours

● After 3,000 thermo-cycles

**UB:** TOKUYAMA UNIVERSAL BOND  
**BF:** TOKUYAMA BOND FORCE II  
**SU:** Scotchbond Universal Adhesive

**AU:** Adhese Universal  
**FU:** Futurabond U  
**IB:** iBond Universal

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



# QUICK & EASY APPLICATION

Reduce chair time, cost, and inventory by eliminating the need to add activators or primers, agitate surfaces, light-cure, or wait after placement.

Follow the same three quick and easy steps for any material used in direct and indirect restorations:



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



NO  
WAIT  
TIME

Apply mixed bond.  
\*For indirect restorations, apply on both surfaces.



NO  
LIGHT  
CURE

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

## Protocol Timeline Comparison for Direct Restorations

TOKUYAMA **UNIVERSAL BOND**

STEP 1

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

STEP 2

Apply mixed bond.

STEP 3

Apply weak air (5 sec.), then medium air (5 sec.) until solvent evaporates.

STEP 4

Place restorative.

25  
SECONDS

SAME PROTOCOL EVERY CASE

Scotchbond™  
Universal Adhesive

STEP 1

Apply the adhesive to the prepared tooth and rub it in for 20 seconds.

STEP 2

Gently air-dry adhesive for approximately 5 seconds to evaporate the solvent.

STEP 3

Light-cure for 10 seconds.

STEP 4

Place restorative.

35  
SECONDS

## CAUTION

\*Requires extra step for indirect restorations

Optibond™ eXTRa Universal

STEP 1

Apply primer to enamel/dentin surface with a brushing motion for 20 seconds.

STEP 2

Air thin for 5 seconds with medium air pressure.

STEP 3

Shake adhesive and apply to dentin/enamel surface with light brushing motion for 15 seconds.

STEP 4

Air thin for 5 seconds.

STEP 5

Light-cure for 10 seconds.

STEP 6

Place restorative.

50  
SECONDS

## CAUTION

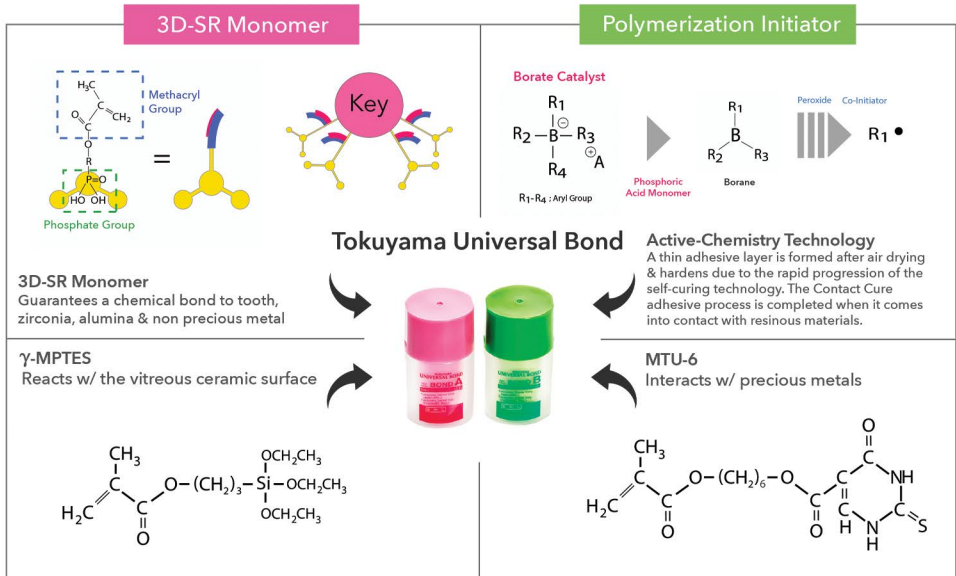
\*Requires extra step for indirect restorations



# SELF-CURE

Self-cure chemistry provides reliable bond in deep preparations, as well as 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	$\gamma$ -MPTES (Ceramic Primer)	Silane Coupling Agent. Adhesion for glass ceramics and resin composite
MTU-6 (Metal Primer)	Adhesion to precious metals	Borate	Polymerization catalyst
HEMA	Penetration into tooth substance. Formation of bonding layer	Peroxide	Polymerization catalyst
Bis-GMA	Formation of bonding layer	Acetone	Solvent
TEGDMA	Formation of bonding layer	Isopropyl alcohol	Solvent
Acetone	Solvent	Water	Solvent



# IMPORTANT INFORMATION

## Refrigeration

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 and needs to be returned to refrigeration after the last appointment/procedure of the day.

## Shelf Life

When stored properly, Tokuyama Universal Bond has a two-year shelf life after the date of production. It should be used by the expiration date indicated on the label of the container.

## TOKUYAMA UNIVERSAL BOND's Working Time after Mixing

After dispensing Bond A and Bond B into the disposable mixing well (included in the Tokuyama Universal Bond Kit), complete the application within 3 minutes. When using a standard, more shallow mixing well, complete the application within 1 minute.

## Air-Dry Step

To achieve optimal bond strength, it is important to follow the 10 seconds air-dry protocol as described in the procedure guide. The first 5 seconds of weak air to thin bonding agent to optimal film thickness, followed by 5 seconds of medium air to evaporate the solvents and complete polymerization. Once the cure is completed, material will turn clear and not appear wet.

## 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
	15213	Bond A Refill	1x Bond A (5mL), IFU
	15218	Bond B Refill	1x Bond B (5mL), IFU
	34650	Disposable Mixing Well	50 disposable mixing wells