

3M Science.
Applied to Life.™

Bonding Solutions by 3M

featuring the Transbond™ Adhesive Family



Adhesive
Innovation,
Outstanding Performance.

Bonding Solutions by 3M featuring the Transbond™ Adhesive Family



Backed by more than **100 years** of innovative adhesive **technology** and **expertise**, 3M is a **trusted** leader in bonding adhesives, setting the gold standard for orthodontic bonding techniques and systems.

From innovative light curing systems and chemical cure adhesives to adhesive coated brackets and banding systems, our full line of **adhesives** and **primers** are easy to use and deliver **reliable** bond retention, **performance** and efficacy.

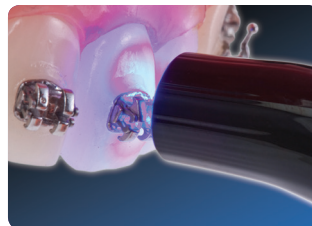
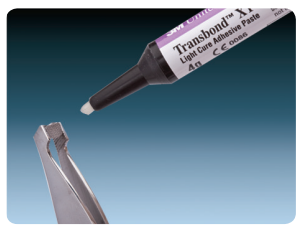




The Transbond™ Adhesive Family

At the heart of successful orthodontics is a strong, unquestionable bond between enamel and brackets, and orthodontists and their bonding products. After more than 25 years of innovation and proven performance in nearly 100 countries around the world, 3M Transbond brand adhesives are the preferred choice by the world's top orthodontists.

One adhesive brand is the clear market leader – a brand synonymous with unparalleled performance: the Transbond™ Adhesive Family.



Adhesive Product Applications and Properties

Transbond brand adhesives and primers offer uncompromising quality and reliable performance. To identify the product that will best meet your needs, utilize this reference chart to determine product applications and specific properties.

	Applications						Properties						Storage Conditions**				
	Primer	DBA Custom Resin Base	IDB Custom Resin Base	IDB Adhesive	Banding	Lingual Retainer	Light Cure	Chemical Cure	Dual Cure	Color Changing	Moisture Tolerant	Mixing Required	2-7°C 35-45°F	2-24°C 35-75°F	2-27°C 35-80°F	5-10°C 41-50°F	Protect from Light
Transbond™ XT Light Cure Adhesive		•	•				•										•
Transbond™ PLUS Color Change Adhesive		•					•		•		•						•
Transbond™ Plus Self Etching Primer	•						•				•			•			•
Transbond™ MIP Moisture Insensitive Primer	•						•				•						•
Transbond™ XT Primer	•						•										•
Transbond™ LR Adhesive for Lingual Retainers		•				•	•										•
Transbond™ Plus Light Cure Band Adhesive					•		•						•				•
Unitek™ Multi-Cure Glass Ionomer Band Cement					•			•			•	•					•
Transbond™ Supreme LV Low Viscosity Light Cure Adhesive				•		•	•										•
Sondhi™ Rapid-Set Indirect Bonding Adhesive				•				•					•				•
Transbond™ IDB Pre-Mix Chemical Cure Adhesive				•				•				•	•				•
Concise™ Orthodontic Chemical Cure Adhesive		•	•					•				•				•	•
Unite™ Chemical Cure Bonding Adhesive		•	•					•					•				•
APC™ Flash-Free Adhesive Coated Appliance System		•	•				•										•
APC™ PLUS Adhesive Coated Appliance System		•	•				•		•		•						•
APC™ II Adhesive Coated Appliance System		•	•				•										•
Rely™ Unicem 2 Resin Cement				•					•		•		•				

* DBA = Direct Bonding Adhesive
IDB = Indirect Bonding

** Recommended conditions to assure product performance to the expiration date

Light Cure Adhesives

Our full line of innovative light cure adhesives feature advanced adhesive technology for additional working time and accurate bracket placement.

Transbond™ XT Light Cure Adhesive

Orthodontists rely on this light cure adhesive to deliver fast, reliable bond strength and accurate results.

- Bond ceramic and metal brackets
- Extended working time for precise bracket placement
- Immediate bond strength, allowing archwire to be tied in immediately following cure
- Excellent handling properties for easy flash clean-up
- Available in syringes and capsules



accurate, versatile

Transbond™ PLUS Color Change Adhesive

Your patients trust you with their smiles. Deliver virtually perfect results with our special color-changing adhesive.

- Moisture tolerant
- Color changing for easier flash clean-up and better bracket reference
- Versatile: bonds ceramic and metal brackets
- Available in syringes and capsules



all in one solutions

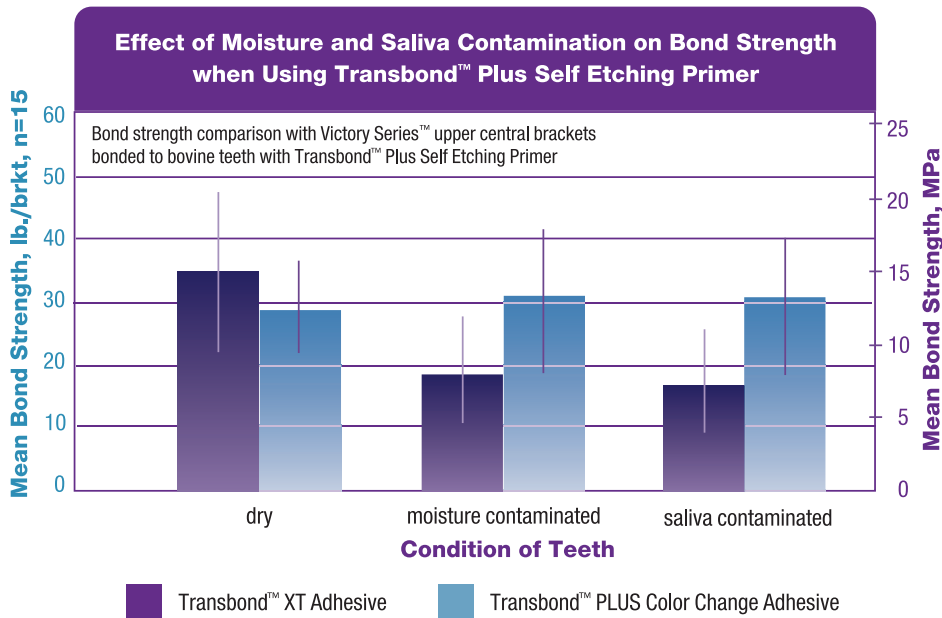
Primers

Versatile, easy to use primers prepare the cleaned/etched tooth surface for light cure adhesive bonding.

Transbond™ Plus Self Etching Primer

An all-in-one bonding solution, 3M's one-step primer features unique chemistry and an exclusive delivery system that allows you to etch and prime in one simple and cost-effective step.

- Moisture tolerant
- Outstanding bond strength
- Optimal mixing with the Easy Roller
- Unit dose dispensing



Source: 3M lab



Transbond™ MIP Moisture Insensitive Primer

Transbond™ MIP Moisture Insensitive Primer is a hydrophilic or “moisture friendly” primer that allows you to bond in a moist environment without compromising bond strength.

- Moisture tolerant
- Increases office efficiency



Transbond™ XT Primer

When you need a wetting agent that performs reliably, Transbond™ XT Primer is the preferred choice.

- Requires only a thin, uniform film on each tooth
- Serves as a wetting agent



“With Transbond™ Plus Self Etching Primer, I can replace two or three loose brackets in the same quadrant in 30 seconds. We no longer need to ask which product to use – we just do it.”
Dr. Terry Sellke, Grayslake, IL



Lingual Retainers

Optimal handling characteristics for shaping and finishing adhesives around lingual retainer wires provide maximum patient comfort.

Transbond™ LR Light Cure Adhesive for Lingual Retainers

A light cure adhesive designed specifically for bonding lingual retainers, the Transbond™ LR Adhesive features optimized viscosity and a softer consistency than Transbond XT Adhesive for easy application and greater control.

- Command cure
- Good strength
- Pre-loaded capsules – no waste of materials
- Excellent handling properties



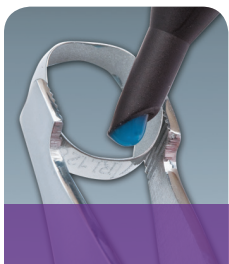
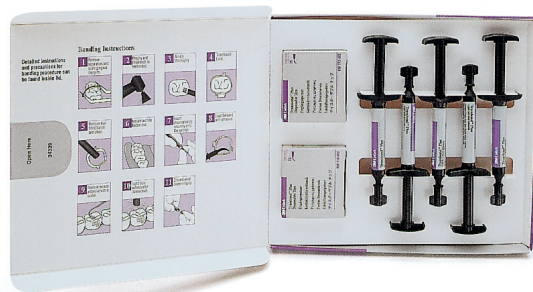
Banding

Our innovative banding solutions provide ease of use and reliable band retention.

Transbond™ Plus Light Cure Band Adhesive

Transbond™ Plus Light Cure Band Adhesive is a single paste, no-mix adhesive with a rapid set time, to reduce the risk of moisture contamination.

- Reduces adhesive waste
- Excellent band retention
- Blue color for easy clean-up



Unitek™ Multi-Cure Glass Ionomer Orthodontic Band Cement

Because it adheres to regular, etched or enhanced orthodontic bands, you can expect reduced band failures with Unitek™ Multi-Cure Glass Ionomer Band Cement. This material fills the voids between the anatomy of the tooth surface and the band, minimizing washout during the lifetime of the band.

- Moisture and saliva tolerant
- Reduces band failures
- Fills voids between tooth surface and bands



Characteristic Comparison

		Transbond™ Plus Light Cure Band Adhesive	Unitek™ Multi-Cure Glass Ionomer Band Cement
Banding Environment	Dry	Yes	Yes
	Moist – Water	No	Yes
	Moist – Saliva	No	Yes
Curing	Light Cure	Yes	Yes
	Chemical Cure	No	Yes
Adhesion	Mechanical Adhesion	Yes	Yes
	Chemical Adhesion	No	Yes
Delivery	Powder/Liquid	No	Yes
	Single Paste	Yes	No

secure placement,

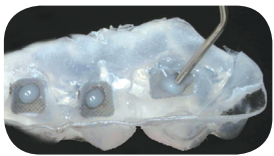
Indirect Bonding

With its accurate, no-waste delivery system, 3M indirect bonding systems offer you excellent control over bracket placement and a high level of precision and strength.

Transbond™ Supreme LV Low Viscosity Light Cure Adhesive

Transbond™ Supreme LV Low Viscosity Light Cure Adhesive is a flowable, light cure adhesive designed specifically for indirect bonding.

- Stays in place without slumping or running prior to light curing
- Convenient metal syringe tips increase accuracy and reduce waste
- Excellent strength, flow and wear properties



“ We have tried many different flowable composites for an indirect bonding procedure. The viscosity of Transbond™ Supreme LV Low Viscosity Light Cure Adhesive makes it the best and easiest to use. ”

Dr. Patrice Pellerin, Lachine, QC

Sondhi™ Rapid-Set Indirect Bonding Adhesive

The Sondhi™ Rapid-Set Indirect Bonding Adhesive is revolutionary from every angle. Lightly filled resins cure chemically in half the time of other indirect adhesives, while achieving two-thirds of its bond strength within the first five minutes.

- Less bracket repositioning
- More control and accurate bracket placement second molar to second molar
- No mixing of Resin A & B required



excellent strength

Lingual Indirect Bonding

Transbond™ IDB Pre-Mix Chemical Cure Adhesive

Transbond™ IDB Pre-Mix Chemical Cure Indirect Bonding Adhesive is a welcome addition to a trusted legacy of adhesives and offers compatibility with lingual or labial indirect bonding systems.



- Good bond strength for reliable indirect bonding
- Permits wire insertion upon tray removal and clean-up
- Can be used with custom-base adhesives such as Transbond™ XT Light Cure Adhesive
- Ample work time and quick set time
- Mix Resin A & B before application

RelyX™ Unicem 2 Automix Self-Adhesive Resin Cement

RelyX™ Unicem 2 Self-Adhesive Resin Cement is an industry-proven dual-cure adhesive with handling and performance characteristics well suited for indirect bonding. It is available in an Automix delivery system that conveniently and accurately mixes and dispenses the paste for application on the lingual indirect bonding trays, as well as direct dispensing onto lingual bracket bases for rebonding.

- Dual-Cure Adhesive
- Recommended for the Incognito™ Appliance System





Curing Lights

Our curing light solutions provide fast cure times and the latest high-power LED technology.

Ortholux™ Luminous Curing Light

The Ortholux™ Luminous Curing Light redefines efficiency and performance in orthodontic curing with a versatile, ergonomic design and the latest in high-power LED technology, utilizing an optimized fiber optic light guide to achieve outputs of 1600 mW/cm².

- One piece, stainless steel, pen-shaped, cordless handpiece
- 3-second curing for ceramic brackets and 6-second cure for metal brackets can reduce chair time
- High intensity 1600 mW/cm² blue LED
- Built-in light meter
- Rechargeable Lithium Ion battery



maximum output

Appliance	Adhesive	Ortholux™ Luminous Curing Light
Metal Brackets	Transbond™ XT Light Cure Adhesive	3 seconds mesial x 3 seconds distal
Ceramic Brackets	Transbond™ PLUS Color Change Adhesive	3 seconds through the bracket
	APC™ Flash-Free Adhesive Coated Brackets	
Buccal Tubes (Direct bond)	APC™ PLUS Adhesive Coated Brackets	6 seconds mesial x 6 seconds occlusal
	APC™ II Adhesive Coated Brackets	
Lingual Retainers	Transbond™ LR Adhesive for Lingual Retainers	3 seconds mesial x 3 seconds distal
Molar Bands	Transbond™ Plus Light Cure Band Adhesive Unitek™ Multi-Cure Glass Ionomer Orthodontic Band Cement	12 seconds (3 seconds per cusp)
Indirect Trays (Metal Brackets)	Transbond™ Supreme LV Low Viscosity Light Cure Adhesive	6 seconds mesial x 6 seconds distal through the trays
Indirect Trays (Ceramic Brackets)		6 seconds through the bracket and trays

“The staff enjoys using this light. The 3-second and 6-second cure times are wonderful.”

Dr. Robert Buck, Baytown, TX



reliable bond strength

Chemical Cure

For more than 30 years, 3M Chemical Cure Adhesives have been the leader in performance and reliability, delivering excellent bond strength and low failure rate.

Concise™ Orthodontic Chemical Cure Adhesive

With its proven bond reliability, Concise™ Orthodontic Chemical Cure Adhesive has been a leader in performance for more than three decades.

- Two-part resin and paste system
- Low failure rate
- Cures chemically
- Reliable bond strength



no-mix adhesive



Unite™ Bonding Adhesive

The industry-proven choice for a strong, reliable bond, ease of handling and rapid placement is Unite™ Bonding Adhesive. Formulated for strength, Unite adhesive allows ample working time yet sets quickly, allowing the archwire to be inserted in as little as four minutes.

- No-mix adhesive for direct bonding
- Available in easy-to-use syringes
- Works with polycarbonate brackets, as well as metal and ceramic
- Cures chemically



3M.com/ortho



easy clean-up,

APC™

Adhesive Coated Appliance System

Adhesive Coated Brackets

3M has set the standard in orthodontic bonding efficiency with the APC™ Adhesive Coated Appliance System with fast and reliable bonding and fewer steps than traditional bonding systems.



APC™ Flash-Free Adhesive

Once again, 3M Innovation delivers a game-changer in orthodontic bonding – with APC™ Flash-Free Adhesive.

Using advanced adhesive technology, APC Flash-Free Adhesive lets you move directly from bracket placement to bracket cure without removing adhesive flash – no clean-up! For doctors, staff and patients, the additional convenience and time savings can be an enormous benefit.

- Eliminates the flash removal step
- Saves bonding time for doctor, staff and patient
- Lowers bond failure rate
- Protects enamel under the adhesive
- Makes debonding and adhesive remnant clean-up easier
- Improves patient bonding/debonding experience



“APC™ Flash-Free Adhesive Coated Brackets are very easy to work with. Not having to clean up flash is a real time saver during the bonding process. Plus, I have the peace of mind knowing that no flash was left behind.”

Dr. Scott Harper, USA

faster results

APC™ PLUS Adhesive Coated Appliance System

The APC™ PLUS Adhesive Coated Appliance System requires fewer steps to completion, meaning faster results, greater efficiencies, fewer opportunities for error, and an enhanced patient experience.

The adhesive starts in the pink – helping the visual reference of the bracket and the clean-up of flash – then fades to clear when exposed to curing light.

- Moisture tolerant
- Color changing for easier flash clean-up and better bracket reference
- Uniform adhesive coating on each bracket



Bonding Steps – Adhesive Systems

APC™ Flash-Free Adhesive System – 5 Steps



APC™ II / PLUS Adhesive Systems – 6 Steps



Traditional Light Cure Bonding Systems – 11 Steps



*Using Transbond™ Plus Self Etching Primer

APC™ II Adhesive Coated Appliance System

The APC™ II Adhesive Coated Appliance System immediately increases office efficiency by eliminating messy adhesive mixing and bracket application – no wasted time getting to chairside.

- No mixing, no application, no opportunity to contaminate the base
- Fewer steps. Fewer bonding variables. Increased productivity
- Available with all 3M appliances



“We really love the APC™ Adhesive Coated Appliance System in all three of our offices. I feel it has certainly improved efficiency by providing a predictable, repeatable bonding procedure. Clean-up is simple and quick, and it has been great in integrating new chair-side staff.”

Dr. Joel D. Cooper, Brentwood, TN

For additional information on any 3M Adhesive products,
call your 3M sales representative or visit 3M.com/ortho



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