

# Scotchbond™ Universal

Adhesive



One bottle for all cases!  
Total-Etch and Self-Etch

**3M** ESPE

# Discover the Universal Bonding Solution

## One Adhesive for Self-Etch and Total-Etch.

Until now dentists have had to juggle adhesive systems, sorting through multiple bottles to select the right product for the indication and preferred technique. With 3M™ ESPE™ Scotchbond™ Universal Adhesive these problems are a thing of the past. This single bottle solution can be used in all techniques, is ideal for direct and indirect applications and can be used on all surfaces without any extra primer. With no comparable adhesive product on the market, the features of Scotchbond Universal brings a whole new class of adhesives to dentistry.



- Combined total-etch, self-etch and selective-etch bonding capability
- Combined primer/adhesive capability to bond to indirect substrates without a separate primer
- Consistent bond strengths with virtually no post-operative sensitivity
- No refrigeration needed; store at room temperature for up to two years
- Flip top vial for one handed operation and unique nozzle for dispensing control



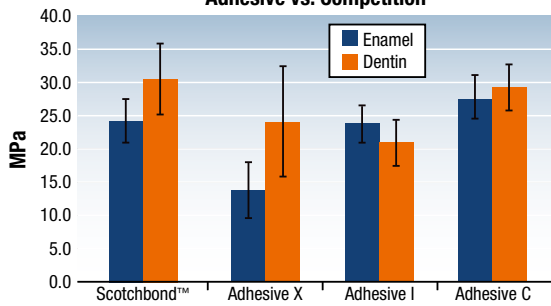
### The Right Choice

Scotchbond Universal adhesive is the single bottle adhesive solution that combines true versatility with strength and speed for effective performance. It offers a high bond strength with one simple application technique and a quick 35-second application time.

### One Adhesive for All Surfaces

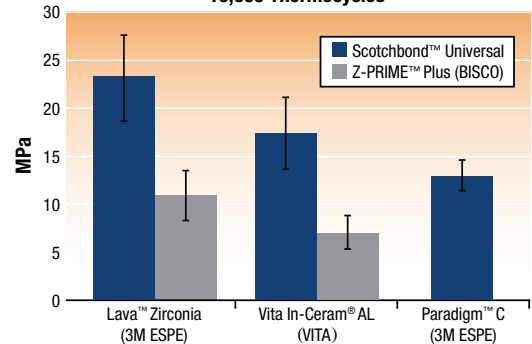
Scotchbond Universal adhesive bonds to all surfaces including enamel, dentine, glass ceramic, zirconia, alumina, metal and composites – without additional primer. Used in combination with Scotchbond™ Universal DCA Dual Cure Activator, it is compatible with all resin cements, core build-up materials and even self-cure composites!

**Self-Etch Bond Strength - Scotchbond™ Universal Adhesive vs. Competition**



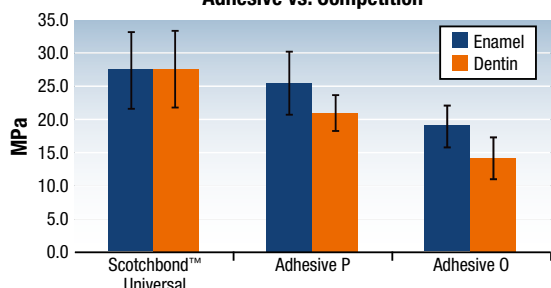
Source: 3M ESPE Internal Data<sup>1</sup>

**Shear Bond Strength to Indirect Substrates After 10,000 Thermocycles**



Source: Dr. Markus Blatz, University of Pennsylvania<sup>2</sup>

**Total-Etch Bond Strength—Scotchbond™ Universal Adhesive vs. Competition**



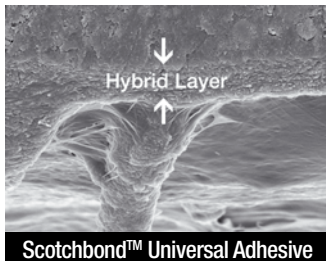
Source: 3M ESPE Internal Data<sup>1</sup>



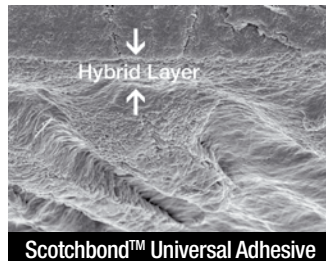
## Consistent Performance

The unique chemistry of Scotchbond Universal adhesive optimises the ratios of the 3M ESPE proprietary Vitrebond™ copolymer, HEMA and water. This allows for rehydration of the collagen network and formation of a distinct hybrid layer whether dentine is kept moist or dry. The result is reduced technique sensitivity, consistent bonding and virtually no post-operative sensitivity in both self-etch and total-etch applications<sup>1</sup>.

Etched Moist Dentine\*



Etched Dry Dentine



SEMs of Scotchbond Universal adhesive applied to etched moist and dry dentine illustrate the distinct hybrid layer and resin tag formation.

\*Results on moist dentine comparable to other total-etch and rinse systems

In contrast, typical total-etch (etch and rinse) systems require the dentine surface to be kept moist after etching to maintain the collagen network resulting in a lack of hybrid layer formation and reduced bond strength that can lead to patient sensitivity.

Etched Dry Dentine



SEM of a typical 2-step etch and rinse system when applied on dry etched dentine. Note the lack of evident hybrid layer.

SEM Images Courtesy of Dr. Jorge Perdigao University of Minnesota<sup>3</sup>

## Virtually No Post-Operative Sensitivity

In a study commissioned by 3M ESPE, 120 dentists from various European countries clinically evaluated Scotchbond Universal adhesive. Based on the feedback from this evaluation, the calculated sensitivity rates for each treatment type is 0.4% for total-etch and 0.06% for self-etch.

Total Number of Total-Etch Restorations:  
**3,467**

**0.4%**

Percent of Total-Etch Restorations with Scotchbond Universal adhesive having post-op sensitivity.

Total Number of Self-Etch Restorations:  
**3,495**

**0.06%**

Percent of Self-Etch Restorations with Scotchbond Universal adhesive having post-op sensitivity.

Source: 3M ESPE Internal Data<sup>1</sup>

## True Versatility

- Combined total-etch, self-etch and selective-etch adhesive
- High bond strength to all indirect surfaces (zirconia, alumina, glass ceramic and metals) without a separate primer
- Self-cure and dual-cure compatible (in combination with Scotchbond DCA Dual Cure Activator)

## Outstanding Performance

- Consistent bond strength to both moist and dry etched dentine
- Excellent margin integrity for highly aesthetic restorations
- Virtually no post-operative sensitivity

## Easy to Use

- One step, one coat adhesive application
- No refrigeration needed, store at room temperature for two years
- Flip top bottle for dispensing control
- Distinct blue etchant, easy to place

## In a Class By Itself

Building on 3M's adhesive expertise in adhesives and bonding, Scotchbond Universal adhesive features a unique chemistry for true versatility – all in one bottle.

- **Vitrebond Copolymer** provides consistent bonding to dentine under moist or dry conditions.
- **MDP Monomer** optimises self-etch performance, provides chemical bonding to zirconia, alumina and metals without a separate primer, and increases shelf life stability so that no refrigeration is needed.
- **Silane** allows the adhesive to chemically bond to glass ceramic surfaces without using a separate primer.

## Broad Range of Indications



Flip top vial with unique nozzle design for dispensing control

### Direct Placement Indications:

- Bonding light cured composite or compomer for all classes of direct restorations
- Root surface desensitisation
- Sealing of dentine prior to amalgam restorations
- Protective varnish for glass ionomer restorative materials
- Repair of composite or compomer restorations
- Bonding sealants

### Indirect Placement Indications:

- Bonding veneers with RelyX™ Veneer Cement
- Adhesive/primer for chemical adhesion when bonding zirconia, alumina, metal or glass ceramic restorations
- Intraoral repair of existing indirect restorations
- Bonding self- or dual-cure core build-up materials and resin cements (with Scotchbond™ DCA Dual Cure Activator)
- Sealing of dentine prior to temporisation for indirect restoration placement

## Ordering Information



Scotchbond™ Universal Adhesive Introductory Kit



Scotchbond™ Universal Adhesive Introductory Pack L-Pop™



Scotchbond™ Universal Dual Cure Activator



Scotchbond™ Universal Etchant Etching Gel

Item No.	Scotchbond Universal Adhesive
41254	<b>Scotchbond™ Universal Adhesive Introductory Kit:</b> 1 Bottle Adhesive 5 ml, 50 Mixing Wells, 50 Microbrushes, 1 Syringe Scotchbond™ Universal Etchant 3 ml, 25 Application Tips for Scotchbond™ Universal Etchant
41258	<b>Scotchbond™ Universal Adhesive Refill:</b> 1 Bottle Scotchbond™ Universal Adhesive 5 ml
41255	<b>Scotchbond™ Universal Adhesive Introductory Pack L-Pop™:</b> 40 Unit Dose, 1 Syringe Scotchbond™ Universal Etchant 3 ml, 25 Application Tips for Scotchbond™ Universal Etchant
41256	<b>Scotchbond™ Universal Adhesive Giant Pack L-Pop™:</b> 100 Unit Dose, 1 Syringe Scotchbond™ Universal Etchant 3 ml, 25 Application Tips for Scotchbond™ Universal Etchant
41257	<b>Scotchbond™ Universal Adhesive Bulk Pack L-Pop™:</b> 200 Unit Dose, 1 Syringe Scotchbond™ Universal Etchant 3 ml, 25 Application Tips for Scotchbond™ Universal Etchant
41263	<b>Scotchbond™ Universal Etchant:</b> 2 Syringes Scotchbond™ Universal Etchant 3 ml each, (Phosphoric Acid), 50 Application Tips
41264	<b>Scotchbond™ Universal DCA Dual Cure Activator:</b> Bottle Scotchbond™ Universal Dual Cure Activator
41274	<b>Scotchbond™ Universal Etchant Etching Tips:</b> 25 application tips for Scotchbond™ Universal Adhesive



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<sup>1,2,3</sup> Scotchbond Universal Technical Product Profile, 2011

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