



## Prime&Bond universal™ Universal Adhesive

Moisture levels vary.  
Our bond won't.

# Active Control for reliable restorations



HEMA-free  
BPA-free

Prime&Bond universal™ introduces the new, patented Active-Guard™ Technology.

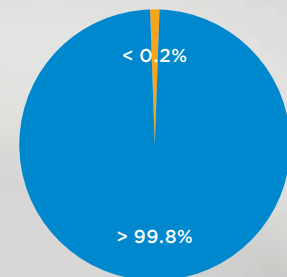
Our formulation provides well balanced hydrophobic and hydrophilic properties to ensure complete coverage and penetration at varying moisture levels. So even if dentin is overly wet or dry, you get a reliable bond that actively guards against the leading causes of adhesive failure. Prime&Bond universal™ provides:

- All etching methods, all indications for more versatility
- Active moisture control
- Active spreading
- Low film thickness
- Active tubule penetration

Selective enamel etching – ideal for class II restorations.  
Get high bond strength in dentin, a tight seal at the enamel margin and minimal etchant exposure.

Prime&Bond universal™ provides active control and consistent results – for virtually no post-operative sensitivity.

RESEARCH SHOWS THAT ON AVERAGE,  
**10%-15%**  
OF POSTERIOR COMPOSITE RESTORATIONS **RESULT IN POST-OPERATIVE SENSITIVITY.**<sup>1</sup>



no post-operative sensitivity  
post-operative sensitivity

Source: User evaluation (2015)<sup>2</sup>

<sup>1</sup> Usman et al, Sensitivity in composite restorations, Pakistan Oral & Dental Journal Vol 34, No. 3 (September 2014); Berkowitz et al, Postoperative Hypersensitivity in Class I Resin-based Composite Restorations, Compend Contin Educ Dent. 2009 ; 30(6): 356-363; Haller, Die Postoperative Hypersensibilität, zm 99, Nr. 6a, 13.03.2009 S. 44-51; Briso et al, Clinical Assessment of Postoperative Sensitivity in Posterior Composite Restorations, Operative Dentistry, 2007, 32-5, 421-426.

<sup>2</sup> Data on file.

## ACTIVE CAVITY SPREADING

# COMPLETE COVERAGE

Inherent surface tension prevents other adhesives from spreading easily across the surface of the cavity. Dry spots that remain unbonded can weaken the restoration and may lead to post-operative sensitivity and microleakage.

Prime&Bond universal™ is formulated to spread actively, minimizing the risk of inadvertently leaving dry spots.



Prime&Bond universal™

A single drop, placed using a micro brush without further manipulation, naturally spreads across most of the surface.



Single Bond Universal

Other universal adhesives resist spreading.



iBOND® Universal

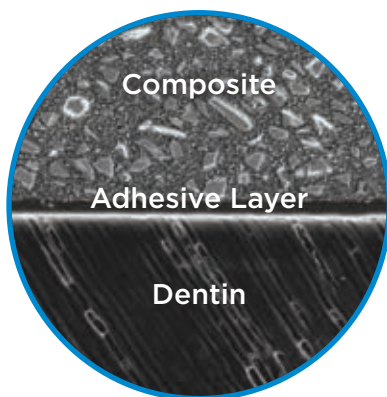
Other universal adhesives resist spreading.

## ACTIVE UNIFORMITY

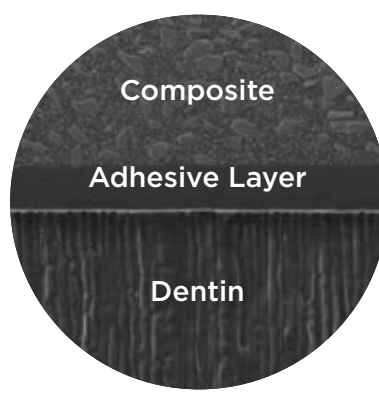
# LOW FILM THICKNESS

Thick adhesives can have a tendency to pool in the corners of the proximal box of a Class II restoration. These adhesive pools can show up as translucent areas on a radiograph, which can easily be misdiagnosed as a void, gap, or secondary decay, leading to unnecessary replacement. Thicker adhesives may also change crown prep geometry, impacting crown fit.

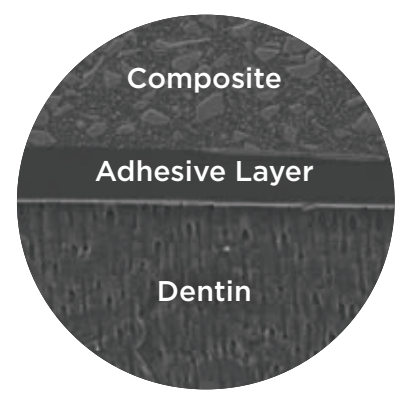
Prime&Bond universal™ self-levels to actively create a thin, uniform adhesive layer.



Prime&Bond universal™



Single Bond Universal



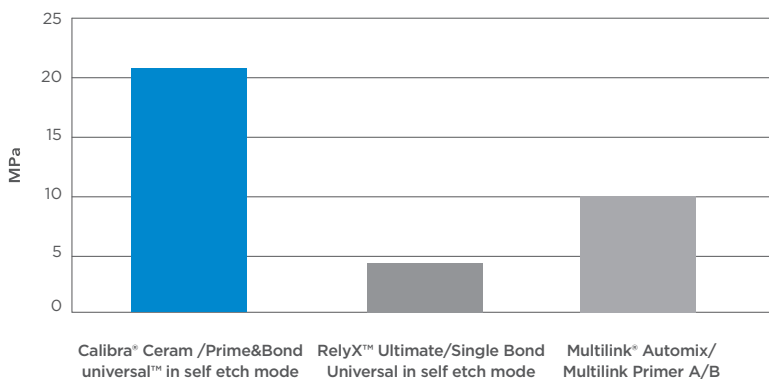
Clearfil™ Universal

ACTIVE STRENGTH AND SIMPLICITY

## OPTIMIZED WITH CALIBRA® CERAM CEMENT

There's no need to apply an activator when Prime&Bond universal™ is used with Calibra® Ceram cement. With high bond strength and easy gel cleanup, this is the ideal combination of all ceramic restorations.

### 6 Minute Dentin Shear Bond Strength



Test was performed following manufacturer's Instructions for Use. Single Bond Universal was light-cured as indicated for best performance.



ACTIVE ADVANTAGE

## CONVENIENCE AND CONTROL

- Flip-top cap for one-handed opening
- Precise dispensing for minimal waste and mess
- Low viscosity for easy application
- Up to 30 minutes working time in a closed CliXdish™, reducing waste when filling multiple cavities



ACTIVE ANSWERS

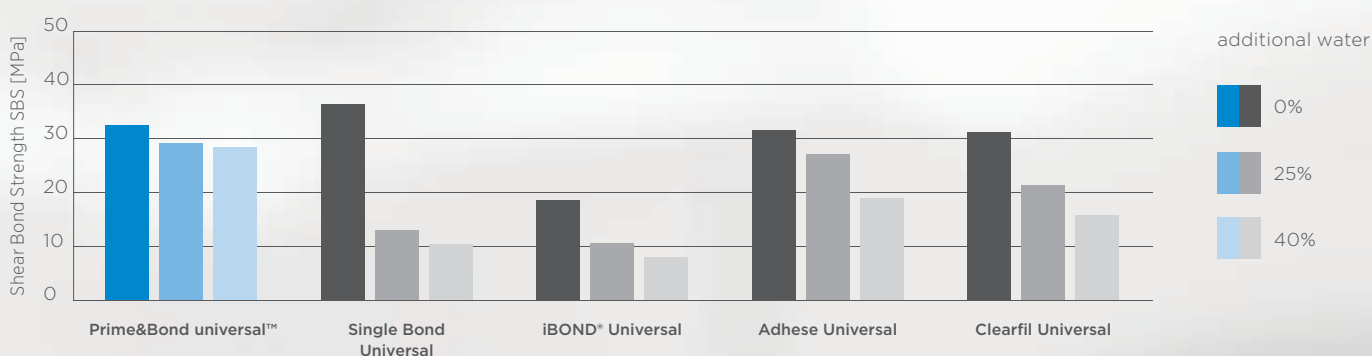
To learn more about Prime&Bond universal™, contact your Dentsply Sirona representative.

# ACTIVE MOISTURE CONTROL TOO WET OR TOO DRY: NO PROBLEM.

Most adhesives are comparatively hydrophobic, tending to separate from water. With too much water on the prepared surface, the adhesive can't achieve uniform coverage, leaving gaps that may weaken the bond and may cause post-operative sensitivity. If dentin is overly dried, collagen fibers can collapse and prevent effective sealing.

Prime&Bond universal™ overcomes the surface tension of water and spreads across dentin and into dentinal tubules to form an even, homogeneous layer. Upon air-drying, the solvent and water evaporate together, leaving a consistent coating of adhesive across the entire surface to ensure a strong bond.

## Shear Bond Strength



Source: Internal Data. Shear Bond Strength of Universal Adhesives on dentin after water contamination. Data on file.

## ACTIVE MIXING



### Prime&Bond universal™

To ensure a homogeneous application, water and solvent evaporate together, leaving an even, consistent adhesive layer.



### Single Bond Universal

Cannot overcome the surface tension of water. Adhesive and water remain separated.



### iBOND® Universal

Cannot overcome the surface tension of water. Adhesive and water remain separated.

# Ordering Information

<b>Mini Refill</b> 1 x 2.5 ml Bottle IFU+ITG	<b>606.67.351</b>
<b>Standard Refill</b> 1 x 4 ml Bottle IFU+ITG	<b>606.67.350</b>
<b>CliXdish™ Refill</b> 3 x CliXdish™	<b>606.67.346</b>



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