

# Forgives Nothing



# Forgives Almost Anything

# Prime&Bond<sup>®</sup>XP



For better dentistry

**DENTSPLY**

# Prime&Bond<sup>®</sup> XP

Prime&Bond<sup>®</sup> XP forgives almost anything: It provides excellent bond strength even under various levels of dentin moisture.



- ✓ Light-Cure
- ✓ Dual-Cure
- ✓ Dark-Cure

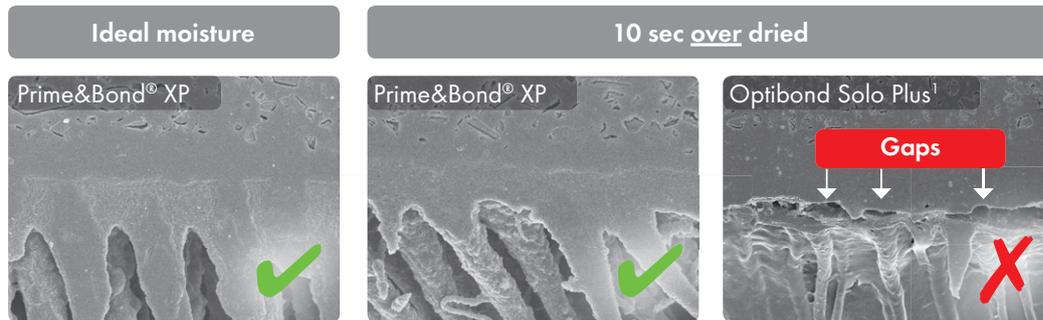
## 1 High application security

Perdigão J.,  
Minneapolis, MN, USA



### Less worries, better results

- Most adhesives require an **optimum level of dentin moisture** to reach their full potential
- This is difficult to achieve under practice conditions
- As a consequence, postoperative **sensitivities** and decreased bond strength can occur



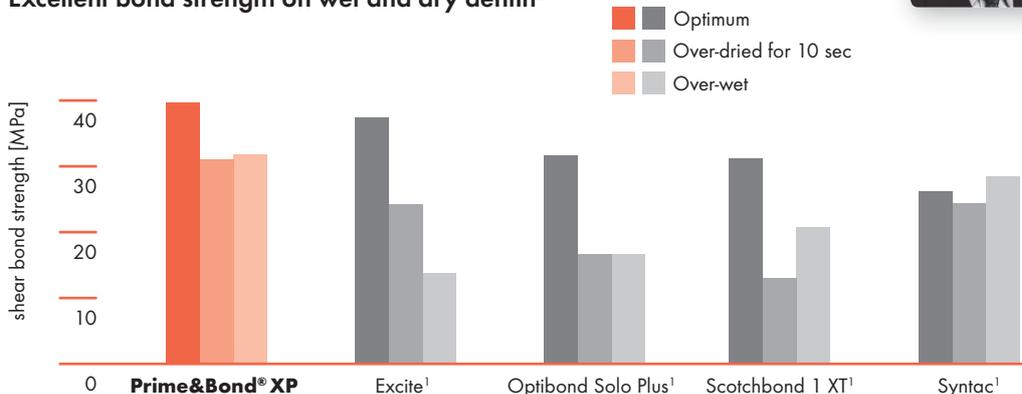
"The morphology of the hybrid layer when Prime&Bond<sup>®</sup> XP was applied on dried dentin was not very distinct from the morphology corresponding to the application of the same adhesive on moist dentin."

## 2 Reliable bond strength

Latta MA,  
Omaha, NE, USA



### Excellent bond strength on wet and dry dentin<sup>2</sup>



<sup>1</sup> Not a registered trademark of DENTSPLY International, Inc.

<sup>2</sup> M.Latta, 2009, after 1800 thermo cycles (5/55 °C), n=10; 5 mm/min

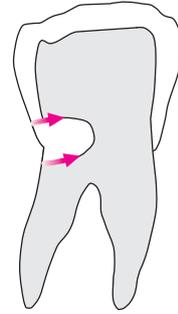
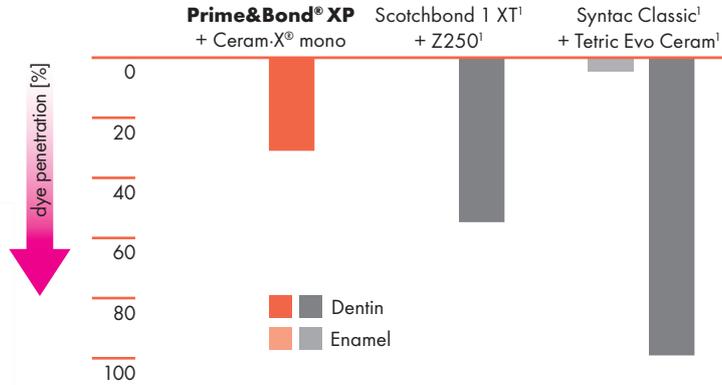


### 3 Tight marginal sealing

Rosales-Leal JJ,  
Granada, Spain



Marginal sealing is paramount for the quality and longevity of a restoration<sup>3</sup>



### 4 Universal use

Dark-Cure option<sup>4</sup> for additional security

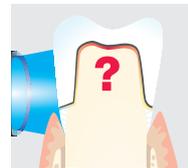
- ✓ Prime&Bond®XP is indicated for all direct and indirect<sup>5</sup> restorations
- ✓ Adhesive layer does not require light curing<sup>4</sup>

What happens if light curing is insufficient?

- Significant decrease in bond strength
- Postoperative sensitivities



Inlays/Onlays



Crown/Bridges



Posts

"In cases where I am not sure how much light transmits the restoration, Prime&Bond®XP and Self Cure Activator provide for more security than systems that require light curing."

Frankenberger R,  
Marburg, Germany



### 5 User friendly

- ✓ **Relaxed:** 15 minutes storage in closed CliXdish™
- ✓ **Easy:** One bottle, one layer, no agitation
- ✓ **Safe:** Good visibility in the cavity
- ✓ **Economic:** up to 300 applications per 5 ml bottle<sup>6</sup>



<sup>3</sup> Rosales-Leal JJ, 2013. Data on file.

<sup>4</sup> When used with SCA + Calibra®, SmartCem®2 or Core-X™ flow, light curing is optional.

<sup>5</sup> For dual- or self-cure materials, SCA is required.

<sup>6</sup> Blunck U, Charité Berlin, 2013. Data on file.



## 606.67.281 Prime&Bond® XP Refill

- 1 x 5 ml Prime&Bond® XP
- 1 x 50 Applicator Tips
- 1 x CliXdish™
- 1 x Directions for use
- 1 x Illustrated Technique Guide



## 606.67.401 Prime&Bond® XP Eco Refill

- 3 x 5 ml Prime&Bond® XP
- 2 x 50 Applicator Tips
- 2 x CliXdish™
- 1 x Directions for use
- 1 x Illustrated Technique Guide



## 634354K Self Cure Activator

- 1 x Self Cure Activator (4.5 ml)
- 1 x Directions for use



## 658012 Applicator Tips

- 1 x 50 Applicator Tips





**Project:** # K-0127

**Date:** 2006-05-16

**Title:** New One-Bottle Traditional Adhesive System

**Tradename:** XPBOND

**CPD-4 # 23 Advertising Claims and Indications For Use Substantiation**

Potential Advertising Claims are summarized in the left column. Under Proofs the respective substantiations are listed.

Claims	Proofs
<ul style="list-style-type: none"> <li>Extra Performance</li> <li>Best overall total-etch bonding</li> </ul>	<ul style="list-style-type: none"> <li>XP BOND performed in each in-vitro investigation equal or better than the included control materials (see #12).</li> <li>In addition XP BOND was the only tested material with top-performance in all in-vitro tests (see #12 Add 6)</li> </ul>
<ul style="list-style-type: none"> <li>Universal Use</li> <li>Technique tolerant</li> </ul>	<ul style="list-style-type: none"> <li>See indications according to DFU (#22)</li> <li>Comparable micromorphology of hybrid layer on moist dentine and dentine dried for 10 seconds (see #12 VP 5)</li> </ul>
<ul style="list-style-type: none"> <li>Ease of Use</li> </ul>	<ul style="list-style-type: none"> <li>XP BOND may be pre-dosed in dappen dish. In a closed CliXdish 15 minutes of working time is guaranteed (see #12 VP 10).</li> <li>Applying one coat without scrubbing performs equal to other adhesives needing active application (see #12 VP 4.2: 14.1174)</li> </ul>
<ul style="list-style-type: none"> <li>Perfect dentine seal</li> </ul>	<ul style="list-style-type: none"> <li>XP BOND was the only total-etch adhesive preventing dye penetration into dentine when leakage occurred in class V restoration (see #12 VP 7.1 and VP 7.2)</li> </ul>
<ul style="list-style-type: none"> <li>Long working time</li> </ul>	<ul style="list-style-type: none"> <li>XP BOND may be pre-dosed in dappen dish. In a closed CliXdish 15 minutes of working time is guaranteed (see #12 VP 10).</li> </ul>
<ul style="list-style-type: none"> <li>Visibility of adhesive layer</li> </ul>	<ul style="list-style-type: none"> <li>Inhouse Evaluation (see #15)</li> </ul>
<ul style="list-style-type: none"> <li>High bond strength for indirect restorations</li> </ul>	<ul style="list-style-type: none"> <li>XPBOND together with SCA and Calibra provides high shear bond strength in all possible scenarios of luting indirect restorations (see #12 Add 1)</li> </ul>
<ul style="list-style-type: none"> <li>24 months shelf life</li> </ul>	<ul style="list-style-type: none"> <li>A shelf life of two years will be guaranteed (see #12 VP 8)</li> </ul>
<ul style="list-style-type: none"> <li>Visibility of bottle content in semi-transparent bottle</li> </ul>	<ul style="list-style-type: none"> <li>Inhouse Evaluation (see #15)</li> </ul>
<ul style="list-style-type: none"> <li>Patent-pending alcohol based solvent</li> </ul>	<ul style="list-style-type: none"> <li>Request for patent application (see #6)</li> </ul>
<ul style="list-style-type: none"> <li>No need for light curing, neither adhesive nor cement, when used in combination with SCA and Calibra for luting</li> </ul>	<ul style="list-style-type: none"> <li>Micro TBS testing by Ferrari (see #12 Add 2)</li> </ul>



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**Tradename:** *XPBOND*

**CPD-4 # 23 Advertising Claims and Indications For Use Substantiation**

<b>Claims</b>	<b>Proofs</b>
<ul style="list-style-type: none"><li>• One bottle/one layer system for light curing procedures</li></ul>	<ul style="list-style-type: none"><li>• Applying one coat without scrubbing performs equal to other adhesives needing active application (see #12 VP 4.2: 14.1106)</li></ul>
<ul style="list-style-type: none"><li>• Longevity</li></ul>	<ul style="list-style-type: none"><li>• Mechanical Fatigue testing by Braem showed superior fatigue limits compared to most controls and equal fatigue limit to Syntac (see # 12 Add 3)</li></ul>
<ul style="list-style-type: none"><li>• Excellent marginal integrity</li></ul>	<ul style="list-style-type: none"><li>• Low dye penetration in class II (see #12 VP 6) and very high percentage of perfect margins after quantitative marginal evaluation under SEM in class V (see # 12 Add 4)</li></ul>
<ul style="list-style-type: none"><li>• Enhanced application safety</li></ul>	<ul style="list-style-type: none"><li>• Applying one coat without scrubbing performs equal to other adhesives needing active application (see #12 VP 4.2).</li><li>• Micro TBS testing by Ferrari and marginal integrity data from Frankenberger (see #12 Add 5)</li></ul>