# Competitive Product Comparison

## Scotchbond™ Universal Adhesive

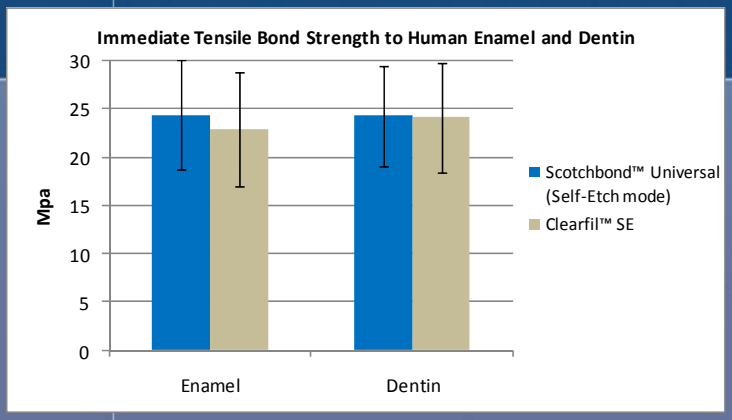
(3M ESPE)

## Clearfil™ SE Bond Resin Based Dental Adhesive System

(Kuraray)

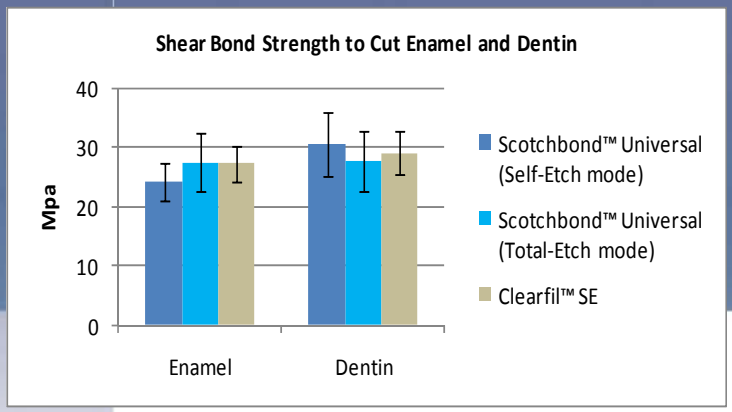
Results

- Scotchbond Universal adhesive exhibits faster direct application times than Clearfil SE.
- Scotchbond Universal adhesive offers more indications and requires fewer bottles for the majority of indications.
- The cut enamel and dentin bond strengths of Scotchbond Universal adhesive are similar to Clearfil SE.
- Scotchbond Universal adhesive has a 2 year shelf life at room temperature. Clearfil SE Bond should be refrigerated.
- Scotchbond Universal adhesive has virtually no post-operative sensitivity in the self-etch and total-etch techniques.




### Bond Strength

The Immediate Tensile Bond Strength study by Dr. Nara, Nippon Dental University shows the similarity in bond strengths between Scotchbond Universal adhesive and Clearfil SE.




### Bond Strength

The bond strength of Scotchbond Universal adhesive and Clearfil were determined using a Notched Edge Shear Bond Strength test method on bovine cut enamel and dentin. The cut enamel and dentin bond strengths of Scotchbond Universal adhesive are similar to Clearfil SE.

Immediate Tensile Bond Strength - Dr. Nara, Nippon Dental University
Shear Bond Strength - Internal 3M ESPE

3M ESPE

| | Scotchbond™ Universal Adhesive by 3M ESPE | Clearfil™ SE Bond Resin-Based Dental Adhesive System by Kuraray |
|---|---|---|
| Indications | Number of bottles/components (A=Adhesive, P=Primer, S=Silane, D=Activator, E=Etchant, AP=Alloy Primer) [1,2] | |
| Uncut enamel | E A | E P A |
| All classes of fillings with light curing composite or compomer materials | A | P A |
| Sealing of cavities prior to cementation of amalgam restorations | A | Not indicated |
| Root surface desensitization | A | P A |
| Protective coating for glass ionomers | A | Not indicated |
| Bonding of pit and fissure sealants | A | Not indicated |
| Intraoral repair of composite or compomer restorations | A | E D P A |
| Veneer Cementation | E A | Not indicated |
| Bonding of dual cure and self cure composite and core build up materials and cements | A + D (for self cure only) | Not indicated |
| Intraoral repair of porcelain fused to metal and all-ceramic restorations | A | E D P A + AP ( for precious metals) |
| Sealing of cavities and preparation of tooth stumps prior to temporary cementation of indirect restorations | A | Not indicated |
| Cementation of endodontic posts | A D | Not indicated |
| Primer for indirect restorations | A | P A |
| Direct Application Technique | 1. Apply ADHESIVE with scrubbing motion for 20 seconds.<br>2. Air thin for 5 seconds.<br>3. Light cure 10 seconds. | 1. Apply primer and leave in place for 20 seconds.<br>2. Air dry<br>3. Apply bond<br>4. Use a gentle air stream to make the bond film uniform<br>5. Light cure for 10 seconds |
| Storage Conditions | No refrigeration required. Store at 2-25°C / 36-77°F | The product should be refrigerated when not in use; bring it to room temperature before using. |
| Packaging | 5ml Bottle, 0.11ml unit dose | 6ml Primer bottle and 5ml Bond bottle |

*Information obtained from Kuraray Website and Clearfil SE Instructions for Use

[1.] Components only – not intended to illustrate order of use [2.] When used with manufacturer's recommended cement system

3M ESPE

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