

## Dental Adhesive Systems

(Adapted from Van Meerbeek et al. 2001 Oper Dent)

### TOTAL ETCH SYSTEMS

#### Three-Step Total-Etch Adhesives

Scotchbond MP plus	3M/ESPE	
*Optibond (total-etch)	Kerr	
*Optibond FI (total-etch)	Kerr	
All-Bond 3	Bisco	
All-Bond 2	Bisco	
Syntac	Ivoclar/Vivadent	
ABC Enhance	Chameleon	
Amalgambond Plus	Parkell	
*Clearfil Liner Bond	Kuraray (actually 4 steps with Protect Liner)	
Dentastic	Pulpdent	
Dentadhesive	Hereaus/Kulzer	
EBS and EBS Multi	ESPE	
Gluma Bonding System	Bayer	
Gluma CPS	Bayer	
Imperva Bond (total-etch)	Shofu	
Mirage Bond	Chameleon	
*PAAMA	SDI	<b>ADA full acceptance</b>
Permagen	Ultradent	
*Permaquick	Ultradent	
Tenure S	Den-Mat	

#### Two-Step Total-Etch Adhesives

*Single Bond	3M/ESPE	
*Optibond Solo	Kerr	
*Optibond Solo Plus	Kerr	
One Step	Bisco	
One Step plus	Bisco	
*Excite	Ivoclar/Vivadent	<b>ADA full acceptance</b>
Bond 1	Jeneric, Wallingford, CT	
Dentastic Uno or Duo	Pulpdent	
EasyBond	Parkell	
Gluma 2000	Bayer	
Prime&Bond 2.1 (and dual cure)	Dentsply	
*Prime&Bond NT (and dual cure)	Dentsply	
*PQ1	Ultradent	
Tenure Quik w Fluoride	Den-Mat	

SELF ETCH or ETCH AND RINSE
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**One-Step Self-Etch Adhesives**

Prompt-L-Pop	ESPE/3M
*Easy Bond	ESPE/3M
*Optibond All-in-One	Kerr
All-Bond SE	Bisco
*Exite DSC	Ivoclar/Vivadent
Clearfil S <sup>3</sup> Bond	
AQ Bond-Touch&Bond	Sun Medical, Kyoto, Japan
Etch&Prime 3.0	Degussa, Hanau, Germany

**Two-Step Self-Etch Adhesives**

*Scotchbond SE	ESPE/3M
*Optibond (no etch)	Kerr
*OptiBond FI (no etch)	Kerr
*AdheSE	Vivadent
One Step Plus/Tyrian SPE	Bisco
+*Clearfil SE	Kuraray
+*Clearfil Liner Bond 2	Kuraray Osaka, Japan
+*Clearfil Liner Bond 2V	Kuraray
*Imperva FL-Bond (Fluorobond)	Shofu
*NRC (no-rinse-conditioner)	
+ Prime&Bond NT	Dentsply
#ART Bond	Coltene
#Imperva Bond (no etch)	Shofu
#Scotchbond 2	3M
#Syntac	Vivadent
#XR-Bond	Kerr

**ADA full acceptance**

**Universal Adhesives- Adhesives with MDP**

+Clearfil Universal Bond	Kuraray
+All-Bond Universal	Bisco
+Scotchbond Universal	3M/ ESPE
+Futurabond Unviversal	Voco
+ Adhese Universal	Ivoclar/Vivadent
+ Prelude One	Danville Materials
Prime and Bond Elect	Dentsply

many of the acidic self etch systems require a dual cure catalyst to be used with dual or self cured cements and buildup materials.

\*provides filled adhesive - elastic layer

#early self-etch adhesives designed to be applied to non-etched dentin and enamel etched separately and

+ MDP in the formulation