

ZMK (23) 10/07, S. 683 ff.

Prof. Dr. Claus Peter Ernst

Selbstkonditionierende Adhäsive: Quo vadis?

1. Brackett WW, Ito S, Tay FR, Haisch LD, Pashley DH. Microtensile dentin bond strength of self-etching resins: effect of a hydrophobic layer. *Oper Dent* 30:733-738 (2005).
2. Brackett MG, Brackett WW, Haisch LD. Microleakage of Class V resin composites placed using self-etching resins: effect of prior enamel etching. *Quintessence Int* 37:109-113 (2006).
3. Brackett WW, Ito S, Nishitani Y, Haisch LD, Pashley DH. The microtensile bond strength of self-etching adhesives to ground enamel. *Oper Dent* 31:332-337 (2006).
4. Burrow MF, Harada N, Kitasako Y, Nikaido T, Tagami J. Seven-year dentin bond strengths of a total- and self-etch system. *Eur J Oral Sci* 113:265-270 (2005).
5. Carvalho RM, Chersoni S, Frankenberger R, Pashley DH, Prati C, Tay FR. A challenge to the conventional wisdom that simultaneous etching and resin infiltration always occurs in self-etch adhesives. *Biomaterials* 26:1035-1042 (2005).
6. Chersoni S, Suppa P, Grandini S, Goracci C, Monticelli F, Yiu C, Huang C, Prati C, Breschi L, Ferrari M, Pashley DH, Tay FR. In vivo and in vitro permeability of one step self-etch adhesives. *J Dent Res* 83:459-464 (2004).
7. De Munck J, Shirai K, Yoshida Y, Inoue S, Van Landuyt K, Lambrechts P, Suzuki K, Shintani H, Van Meerbeek B. Effect of water storage on the bonding effectiveness of 6 adhesives to Class I cavity dentin. *Oper Dent* 31:456-465 (2006).
8. Dondi dall'Orologio G, Lorenzi R. Restorations of cervical lesions: 3-year results of randomized controlled trial. *IADR Poster* 1152 (2006).
9. Dunn JR. iBond: the seventh-generation, one-bottle dental bonding agent. *Compend Contin Educ Dent* 24 (2 Suppl):14-18 (2003).
10. Ernst CP. Selbstkonditionierende Adhäsive: Positionierung, Indikationen, Kontraindikationen, Vor- und Nachteile. *Magazin für Zahnheilkunde Management und Kultur* 20 (1-2):6-27 (2004).
11. Ernst CP. Was für ein Adhäsiv braucht man eigentlich? *Ästhetische Zahnmedizin* 8 (2):43-49 (2005).
12. Ernst CP, Fiedler T, Brandenbusch M, Willershausen B. In-vitro-Untersuchung zum Randschluss selbstkonditionierender Adhäsive in Klasse-II-Kavitäten. *Dtsch Zahnärztl Z* 60:193-199 (2005).
13. Ernst CP, Galler P, Horn JG, Willershausen B, Haller B. Marginal integrity of Class V restorations: SEM versus dye penetration.  
<http://iadr.confex.com/iadr/pef06/dr/papers/index.cgi?username=84204&password=111051>
14. Ernst CP, Brandenbusch M, Meyer GR, Canbek K, Werling U, Willershausen B. Hybrid Bond and Xeno III in cervical lesions: two year results.  
<http://iadr.confex.com/iadr/2007orleans/dmfour/papers/index.cgi?username=88022&password=619766>
15. Frankenberger R, Sindel J, Krämer N. Beeinflussen Dentinadhäsive und ihre Applikation die Schmelzhaftung? *Dtsch Zahnärztl Z* 52:202-209 (1997).
16. Frankenberger R, Tay FR. Self-etch vs etch-and-rinse adhesives: effect of thermo-mechanical fatigue loading on marginal quality of bonded resin composite restorations. *Dent Mater* 21:397-412 (2005).

17. Frankenberger R, Pashley DH, Reich SM, Lohbauer U, Petschelt A, Tay FR. Characterisation of resin-dentine interfaces by compressive cyclic loading. *Biomaterials* 26:2043-2052 (2005).
18. Gernhardt CR, Bekes K, Fechner K, Schaller H-G. The influence of human plasma used for in vitro dentin perfusion on microtensile bond strength of 5 self-conditioning dentin adhesives. *Quintessence Int* 37:429-435 (2006).
19. Hashimoto M, De Munck J, Ito S, Sano H, Kaga M, Oguchi H, Van Meerbeek B, Pashley DH. In vitro effect of nanoleakage expression on resin-dentin bond strengths analyzed by microtensile bond test, SEM/EDX and TEM. *Biomaterials* 25: 5565-5574 (2004).
20. Hoffmann M, Rist A. Heraeus Kulzer Adhäsive. *Wissenschaftliche Informationen* (2006).
21. Ito S, Tay FR, Hashimoto M, Yoshiyama M, Saito T, Brackett WW, Waller JL, Pashley DH. Effects of multiple coatings of two all-in-one adhesives on dentin bonding. *J Adhes Dent* 7:133-141 (2004).
22. Kanehira M, Finger WJ, Hoffmann M, Endo T, Komatsu M. Relationship between degree of polymerization and enamel bond strength with self-etching adhesives. *J Adh Dent* 8:211-216 (2006).
23. Kanehira M, Finger WJ, Hoffmann M, Endo T, Komatsu M. Compatability between an all-in-one self-etching adhesive and a dual-cured resin luting cement. *J Adh Dent* 8:229-232 (2006).
24. Mandras RS, Thurmond JW, Latta MA, Matranga LF, Kildee JM, Barkmeier WW. Three-year clinical evaluation of the Clearfil Liner Bond system. *Oper Dent*; 22:266-270 (1997).
25. Owens BM, Johnson WW. Effect of insertion technique and adhesive system on microleakage of Class V resin composite restorations. *J Adhes Dent* 7:303-308 (2005).
26. Owens BM, Johnson WW, Harris EF. Marginal permeability of self-etch and total etch adhesive systems. *Oper Dent* 31:60-67 (2006).
27. Pradelle-Plasse N, Nechad S, Tavernier B, Colon P. Effect of dentin adhesives on the enamel-dentin/composite interfacial microleakage *American Journal of Dentistry* 14: 344-348 (2001).
28. Ritter AV, Heymann H, Pereira P, Sturdevant J, Swift E Jr., Wilder A. Clinical evaluation of an all-in-one self-etching dental adhesive. *J Dent Res* 84 (Spec Iss A) Abstract #2568 (2005).
29. Ritter DE, Ritter AV, Bruggeman G, Locks A, Tulloch JF. Bond strengths and adhesive remnant index of self-etching adhesives used to bond brackets to instrumented and uninstrumented enamel. *Am J Dent* 19:47-50 (2006).
30. Sadek FT, Goracci C, Cardoso PE, Tay FR, Ferrari M. Microtensile bond strength of current dentin adhesives measured immediately and 24 hours after application. *J Adhes Dent* 7:297-302 (2005).
31. Soderholm KJ, Guelmann M, Bimstein E. Shear bond strength of one 4th and two 7th generation bonding agents when used by operators with different bonding experience. *J Adhes Dent* 7:57-64 (2005).
32. Swift EJ Jr, Perdigao J, Wilder AD Jr, Heymann HO, Sturdevant JR, Bayne SC. Clinical evaluation of two one-bottle dentin adhesives at three years. *J Am Dent Assoc* 132:1117-1123 (2001).
33. Turkun SL. Clinical evaluation of a self-etching and a one-bottle adhesive system at two years. *Journal of Dentistry* 31:527-534 (2003).
34. Van Dijken JW. Durability of three simplified adhesive systems in Class V non-carious cervical dentin lesions. *Am J Dent* 17:27-32 (2004).

35. Van Landuyt KL, Kanumilli P, De Munck J, Peumans M, Lambrechts P, Van Meerbeek B. Bond strength of a mild self-etch adhesive with and without prior acid-etching. *J Dent* 34:77-85 (2006).
36. Van Meerbeek B, de Munck J, Yoshida Y, Inoue M, Vargas P, Vijay P, van Landuyt K, Lambrechts P, Vanherle G. Adhäsion an Schmelz und Dentin. Aktueller Stand und zukünftige Aufgaben, Teil 2. *Ästhetische Zahnmedizin* 7:95 (2004).