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**Selbstkonditionierender Glaskeramik-Primer: eine 1. Metaanalyse zu  
Monobond Etch&Prime**

- [1] Aboushelib MN, Sleem D: Microtensile bond strength of lithium disilicate ceramics to resin adhesives. *J Adhes Dent* 16, 547–552 (2014).
- [2] Al-Harthi AA, Aljoudi MH, Almaliki MN, El-Banna KA: Laboratory study of micro-shear bond strength of two resin cements to leucite ceramics using different ceramic primers. *J Contemp Dent Pract* 19, 918–924 (2018).
- [3] Alsobiyl H, Alshabib A, Sartori N, Duarte S, Phark JH: Influence of a novel self-priming etchant on bond strength to glass-ceramics. *J Adhes Dent* 19, 439 (2017) (Abstract des 2. Jahrestreffens der Internat. Academy of Adhesive Dentistry [IAAD], 16.–17.6.2017, Philadelphia, Pennsylvania, USA).
- [4] Bottino MA, Snellaert A, Bergoli CD, Özcan M, Bottino MC, Valandro LF: Effect of ceramic etching protocols on resin bond strength to a feldspar ceramic. *Oper Dent* 40, 40–46 (2015).
- [5] Catel D, Koch S, Bock T: Novel self-etching ceramic primer: influence on substrate mechanical properties. Vortrag #298 auf der IADR/PER-Kongress in Dubrovnik, Kroatien. 12.9.2014, 8.00 Uhr Elafiti 4 (Valamar Lacroma Hotel),  
<https://iadr.confex.com/iadr/per14/webprogram/Paper192029.html> (2014).
- [6] El-Damanhoury HM, Gaintantzopoulou MD: Self-etching ceramic primer versus hydrofluoric acid etching: Etching efficacy and bonding performance. *J Prosthodont Res* 62, 75–83 (2018).
- [7] Elsaka SE: Bond strength of novel CAD/CAM restorative materials to self-adhesive resin cement: the effect of surface treatments. *J Adhes Dent* 16, 531–540 (2014).
- [8] Ernst CP: Innovatives Konzept zur adhäsiven Befestigung am Beispiel zweier IPS e.max-Kronen. *ZMK* 31, 833–839 (2015).
- [9] Ernst CP: Glaskeramik vorbehandeln ohne Flusssäure? *Dental Magazin* 34, 86–90 (2016).
- [10] Frankenberger R, Hartmann VE, Krech M, Krämer N, Reich S, Braun A, Roggendorf M: Adhesive luting of new CAD/CAM materials. *Int J Comput Dent* 18, 9–20 (2015).
- [11] Heleba A, Hill T, Singhal S, McCabe P, Tysowsky G: Effect of storage on shear-bond strength of self-etch ceramic primer. AADR-Jahrestagung, Los Angeles, CA, USA, 18.3.2016 Abstract #1067 (2016).

[12] Ivoclar Vivadent. Monobond Etch&Prime Scientific Report. Ausgabe 1/2018.

<http://www.ivoclarvivadent.com/en/download-center/scientific-documentations/#M>.

[13] Kalavacharla VK, Lawson NC, Ramp LC, Burgess JO: Influence of etching protocol and silane treatment with an universal adhesive on lithium disilicate bond strength. Oper Dent 40, 372–378 (2015).

[14] Kim RJ, Woo JS, Lee IB, Yi YA, Hwang JY, Seo DG: Performance of universal adhesives on bonding to leucite-reinforced ceramic. Biomater Res 19, 11 (2015).

[15] Lemoy C, Jacomine I, Favier D, Gauthier C, Etienne O: Evolution of a new self-etching glass ceramic primer. CED-IADR/NOF-Jahrestagung 2017, Wien, Österreich, 22.9.2017. Abstract #0307 (2017).

[16] Lise D, Perdigão J, Van Ende A, Zidan O, Lopes G: Microshear bond strength of resin cements to lithium disilicate substrates as a function of surface preparation. Oper Dent 40, E40–46 (2015).

[17] Lopes GC, Perdigão J, Baptista D, Ballarin A: Does a self-etching ceramic primer improve bonding to lithium disilicate ceramics? Bond strengths and FESEM analyses. Oper Dent 2018 Aug 14. doi: 10.2341/17–355-L. [Epub ahead of print]

[18] Lyann SK, Takagaki T, Nikaido T, Uo Motohiro, Ikeda M, Sadr A, Tagami J: Effect of different surface treatments on the tensile bond strength to lithium disilicate glass ceramics. J Adhes Dent 20, 261–268 (2018).

[19] Meyer G, Ahsbahs S, Kern M: Vollkeramische Kronen und Brücken – S3-Leitlinie (AWMF-Registernummer 083-012). <http://www.awmf.org/leitlinien/detail/II/083-012.html> (2015).

[20] Meyer G, Kern M: Kronen und Brücken aus Vollkeramik. Zahnärztliche Mitteilungen 105, (2015).

[21] Mitchell J C, Brownstein S, Tang A, Assar S, Do L, Pulido M: Self-etching glass-ceramic primer: shear bond strength with Monobond Etch & Prime. IADR-Jahrestagung 25.3.2017, San Francisco, CA, USA, Abstract #3862 (2017).

[22] Murillo-Gómez F, Palma-Dibb RG, De Goes MF: Effect of acid etching on tridimensional microstructure of etchable CAD/CAM materials. Dent Mater 34, 944–955 (2018).

[23] Neto DS, Naves LZ, Costa AR, Correr AB, Consani S, Borges GA, Correr-Sobrinho L: The effect of hydrofluoric acid concentration on the bond strength and morphology of the surface and interface of glass ceramics to a resin cement. Oper Dent 40, 470–479 (2015).

- [24] Ozcan M, Allahbeickaraghi A, Dündar M: Possible hazardous effects of hydrofluoric acid and recommendations for treatment approach: a review. *Clin Oral Investig* 16 (1), 15–23 (2012).
- [25] Passia N, Lehmann F, Freitag-Wolf S, Kern M: Tensile bond strength of different universal adhesive systems to lithium disilicate ceramic. *J Am Dent Assoc* 146, 729–734 (2015).
- [26] Prado M, Prochnow C, Marchionatti AME, Baldissara P, Valandro LF, Wandscher VF: Ceramic surface treatment with a single-component primer: resin adhesion to glass ceramics. *J Adhes Dent* 20, 99–105 (2018).
- [27] Román-Rodríguez JL, Perez-Barquero JA, Gonzalez-Angulo E, Fons-Font A, Bustos-JL: Bonding to silicate ceramics: conventional technique compared with a simplified technique. *J Clin Exp Dent* 9, 384–386 (2017).
- [28] Siqueira FS, Alessi RS, Cardenas AF, Kose C, Souza Pinto SC, Bandeca MC, Loguercio AD, Gomes JC: New single-bottle ceramic primer: 6-month case report and laboratory performance. *J Contemp Dent Pract* 17, 1033–1039 (2016).
- [29] Spitznagel FA, Horvath SD, Guess PC, Blatz MB: Resin bond to indirect composite and new ceramic/polymer materials: a review of the literature. *J Esthet Restor Dent* 26, 382–393 (2014).
- [30] Strasser T, Preis V, Behr M, Rosentritt M: Roughness, surface energy, and superficial damages of CAD/CAM materials after surface treatment. *Clin Oral Investig* 2018; Feb 5. doi: 10.1007/s00784-018-2365-6. [Epub ahead of print]
- [31] Takimoto M, Kurokawa H, Miyazaki M: Influence of new ceramic surface conditioner on bonding performance of resin cements. JSAD Abstract. 34. Jahrestagung der Japan Society for Adhesive Dentistry (2015).
- [32] Tian T, Tsoi JK, Matinlinna JP, Burrow MF: Aspects of bonding between resin luting cements and glass ceramic materials. *Dent Mater* 30, 147–162 (2014).
- [33] Tribst J, Anami LC, Özcan M, Bottino MA, Melo RM, Saavedra G: Self-etching primers vs acid conditioning: impact on bond strength between ceramics and resin cement. *Oper Dent* 43, 372–379 (2018).
- [34] Venturini AB, Prochnow C, May LG, Bottino MC, Felipe Valandro L: Influence of hydrofluoric acid concentration on the flexural strength of a feldspathic ceramic. *J Mech Behav Biomed Mater* 48, 241–248 (2015).
- [35] Vohra R, Velez LI, Rivera W, Benitez FL, Delaney KA: Recurrent life-threatening ventricular dysrhythmias associated with acute hydrofluoric acid ingestion: observations in

one case and implications for mechanism of toxicity. *Clin Toxicol (Phila)* 46, 79–84 (2008).

[36] Wille S, Lehmann F, Kern M: Durability of resin bonding to lithium disilicate and zirconia ceramic using a self-etching primer. *J Adhes Dent* 19, 491–496 (2017).

[37] Yoshida F, Tsujimoto A, Ishii R, Nojiri K, Takamizawa T, Miyazaki M, Latta MA: Influence of surface treatment of contaminated lithium disilicate and leucite glass ceramics on surface free energy and bond strength of universal adhesives. *Dent Mater J* 34, 855–862 (2015).

[38] Yoshihara K, Nagaoka N, Sonoda A, Maruo Y, Makita Y, Okihara T, Irie M, Yoshida YV, Meerbeek B: Effectiveness and stability of silane coupling agent incorporated in ‘universal’ adhesives. *Dent Mater* 32, 1218–1125 (2016).

[39] Xiaoping L, Dongfeng R, Silikas N: Effect of etching time and resin bond on the flexural strength of IPS e.max Press glass ceramic. *Dent Mater* 30, 330–306 (2014).