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## Abstract

LEITE, F替io Renato Manzolli; CAPOTE, Ticiana Sidorenko de Oliveira and ZUANON, Angela Cristina Cilense. Application of the total etching technique or self-etching primers on primary teeth after air abrasion. *Braz. oral res.* [online]. 2005, vol.19, n.3, pp. 198-202. ISSN 1806-8324. doi: 10.1590/S1806-83242005000300008.

Since the use of air abrasion has grown in pediatric dentistry, the aim of this study was to evaluate, by means of shear bond strength testing, the need to use the total etching technique or self-etching primers on dentin of primary teeth after air abrasion. Twenty-five exfoliated primary molars had their occlusal dentin exposed by trimming and polishing. Specimens were treated by: Air abrasion + Scotchbond MultiPurpose adhesive (G1); 37% phosphoric acid + Scotchbond MP adhesive (G2); Clearfil SE (G3); Air abrasion + 37% phosphoric acid + Scotchbond MP adhesive (G4); Air abrasion + Clearfil SE (G5). On the treated surface, a cylinder of 2 mm by 6 mm was made using a composite resin (Z100). Duncan's test showed that: (G2 = G3 = G5) > (G1 = G4). The use of a self-etching primer on air abraded dentin is recommended to obtain higher bond strengths.



Keywords: Air abrasion, dental; Tooth, eciduous; Dentin; Dentin-bonding agents; Acid etching, dental.

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