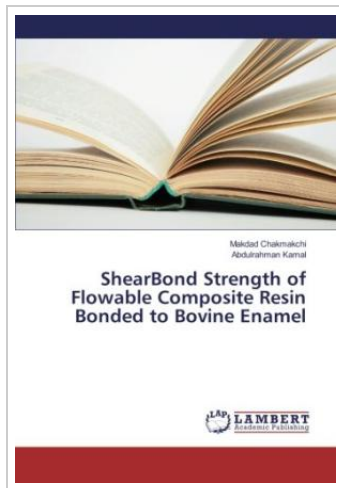



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ShearBond Strength of Flowable Composite Resin Bonded to Bovine Enamel

By Chakmakchi, Makdad / Kamal, Abdulrahman

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Acid etching or surface treatment of enamel appear to improve retention by selectively eroding certain hydroxyapatite and facilitating penetration of resin tags and a hybrid layer formation which result in long-term bond strength of adhesive systems. Aim of study: Effect of lasing on shear bond strength (SBS) of flowable composite. Effect of total-etch and self-etch adhesives on shear bond strength (SBS) of flowable composite. Evaluate the failure mode of experimental groups. Materials and Methods: Forty bovine incisors were used, enamel surfaces were ground by silicon carbide paper and samples were randomly assigned into two main groups (Gp A: Non lased group, GpB: lased prepared group). Each main group was subdivided randomly according to the adhesive systems that were used which are: total-etch adhesive (Teco, DMG, Hamborg, Germany) and self-etch adhesive (contax, DMG, Hamborg, Germany). Adhesives applied to the prepared enamel surface according to manufacture instruction. Composite rod applied over the bonded area and cured. Samples were stored in distilled water at 37°C for 24 hours. The evaluation of shear bond strength was employed by the use of universal testing machine. | Format: Paperback | Language/Sprache: english | 120 pp.



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