

Bonding of a Multi Mode Adhesive To Different Enamel Prism Orientations

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Abstract

Aim or purpose: This study was carried out to investigate the microshear bond strengths of enamel. **Materials and Methods:** Enamel substrates (n=80) were categorized into two main groups (n=40) according to the enamel regions tested; either cuspal or midcoronal enamel. Each region was then prepared either in axial or tangential sections (n=20). Then enamel specimens were bonded with MMA either in self-etch (SE) or etch-and-rinse (ER) adhesion protocol (n=10). Nano-filled universal testing machine. Resin-enamel interface was assessed under environmental scanning electron microscope. Statistical analysis was carried out using SPSS. **Results:** The bond strengths of the MMA is influenced by the direction of enamel rods. Application of MMA in ER adhesion protocol improves the resin-enamel bond strength. Powered by TCPDF (www.tcpdf.org)

FDI 2018 - World Dental Congress, At Buenos Aires, Argentina 2018, September