

SHEAR BOND STRENGTH OF POLY ACID MODIFIED COMPOSITE (COMPOMER) TO DENTIN

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Abstract:

The present study was carried out to measure and compare the shear bond strength of poly acid modified composites (Compomer) to dentin with other types of hybrid composites and glass ionomers. Occlusal surfaces of 35 molar teeth were ground flat. Samples of Z100/SBMP +, compoglass, dyract, Tetric/syntac and Vitremer were bonded to the dentin pretreated according to the manufacturer instructions of each material. Mean shear bond strength recorded were 26.1 ± 3.2 , 10.4 ± 1.57 , 9.25 ± 1.26 , 7.6 ± 1 and 4.7 ± 0.49 MPa respectively. S.E.M. studies revealed a combination of cohesive/adhesive bond failure for all tested materials except Vitremer which showed adhesive failure only.

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