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PhD in Medical Science

Research Area: Dental Materials

Title: Physicochemical, mechanical and SEM characterization of a new experimental adhesive containing G-IEMA.

Universal dental adhesives are a new versatile and very attractive adhesive family recently introduced in the market, however, they still present limitations. Moreover, the in vitro performance of universal adhesives has been reported as material-dependent due to the complexity of their chemical composition. In this work, a dendrimer (G-IEMA) was synthesized and subsequently incorporated into an experimental adhesive (AE2) formulated without Bis-GMA. Their physicochemical and mechanical properties were studied and the bonding interfaces were characterized by SEM.

Keywords: universal adhesives, Bis-GMA free adhesives, dendrimers, physicochemical and mechanical properties

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