EVALUATION OF THE FILM THICKNESS OF NEW ADHESIVE LUTING RESINS†

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Recently, several composite resins have been reformulated as adhesive luting agents. The film thickness of some resinous cements has been reported in the literature, however the results were inconsistent. The purpose of this investigation was to compare the film thickness of five relatively new adhesive luting resins with that of zinc phosphate cement. The method used was generally in compliance with the American Dental Association (ADA) specification No. 8 for zinc phosphate cement. Tested materials were manipulated as described by the manufacturer. The film thickness of each cement was measured 10 times. The results, presented in an increasing order of film thickness were: Mirage FLC, Panavia Ex, Voco F21, Flecks zinc phosphate, C & B Metabond, and finally All-Bond. The film thickness of the adhesive luting resins tested were comparable to or thinner than zinc phosphate cement except for All-Bond luting resin. Suggestions are made regarding the selection of an adhesive luting resin.