Fiber posts luting procedure: luting cements and surface treatment

The longitudinal success of restorative or prosthetic rehabilitations of endodontically treated teeth depends on the quality of the restoration, on its clinical adaptation and on the health of the supporting tissue. Fiber posts for restoring endodontically treated teeth introduced a new restorative concept, since the post in combination with adhesive materials (luting cement and restorative material) can form a structurally and mechanically homogeneous complex with dentin.

The luting systems suitable for fiber post bonding can be divided into two subgroups according to the bonding agent used before cementation. One group utilizes etch-and-rinse adhesive systems and in the other group, self-etching primers are applied. The effect of luting systems and root region on the push-out bond strengths of glass fiber-reinforced, the interfacial strength and ultrastructure of total-etch, self-etch and self-adhesive resin cements used for luting endodontic glass fiber posts, post retention in the different regions of the post space, the microtensile bond strength of two adhesive systems to root dentin with different fiber posts have discussed in this article.

Fiber-posts, luting procedure, cements, root dentin

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