

Treatment after bleaching for optimal bonding

Q I am aware of sodium hydroxide treatment after walking bleaching. I wonder, in case of laminate veneering after office or home bleaching, what kind of surface treatment is recommended for successful bonding?

A Regardless of bleaching regimes, the bond strength of composite resin or resin cement is reduced when bonding procedure is performed immediately after whitening.¹⁻¹² It is believed that the polymerization via free-radical mechanism is impeded by nascent oxygen remnant and peroxide in the bleached dental hard tissue.¹³ Because sodium hydroxide is used as a buffering agent to control the decreased pH, it does not guarantee optimal bonding.⁵ To handle compromised bond strength of pre-bleached dental hard tissue, use antioxidant like sodium ascorbate.^{2,5,7-9,14,15} As a practical approach, place 10% sodium ascorbate on the bleached surface for 10 minutes with agitation and rinse it with water before bonding.²

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