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[\[PDF \(582K\)\]](#) [\[References\]](#)**Shear bond strengths of different adhesive systems to white mineral trioxide aggregate**[Sule BAYRAK^{1\)}](#), [Emine Sen TUNÇ^{1\)}](#), [Isil SAROGLU^{2\)}](#) and [Türkan EGILMEZ^{1\)}](#)

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Abstract:

This study was conducted to compare the shear bond strengths of different adhesive systems to White Mineral Trioxide Aggregate (WMTA). To this end, 40 cylindrical acrylic blocks with a hole in the middle measuring 4 mm diameter × 2 mm height were prepared. The hole was filled with WMTA, and the specimens were allocated into four groups: Group 1 – Prime & Bond NT; Group 2 – AdheSE; Group 3 – Xeno III; and Group 4 – Adper Prompt L-Pop. In each group, a different adhesive system and a compomer (Dyract AP) were applied over WMTA. Shear bond strengths were measured using a universal testing machine, and then the data were subjected to one-way ANOVA and Scheffé's *post hoc* test ($p < 0.05$). Significantly lowest shear bond strength value was obtained with Adper Prompt L-Pop, whereas Prime & Bond NT revealed higher shear bond strength than the others ($p < 0.05$). In conclusion, an etch-and-rinse adhesive system — which exhibited significantly higher shear bond strength than self-etch adhesive systems — could be a preferred choice when placing compomer materials upon WMTA.

Key words:[WMTA](#), [Shear bond strength](#), [Bonding](#)[\[PDF \(582K\)\]](#) [\[References\]](#)Download Meta of Article [\[Help\]](#)

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