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[\[PDF \(312K\)\]](#) [\[References\]](#)**Sealing Ability of New Adhesive Root Canal Filling Materials Measured by New Dye Penetration Method**[Hitomi ISHIMURA](#)<sup>1)</sup>, [Takatomo YOSHIOKA](#)<sup>1)</sup> and [Hideaki SUDA](#)<sup>1)</sup>

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**Abstract:**

The sealing ability of new adhesive root canal filling materials was evaluated using a new dye penetration method. Twenty-eight single-rooted mandibular premolars were randomly divided into four groups of seven teeth each and filled by lateral condensation using one of these combinations: Resilon point with Epiphany sealer (RE); gutta-percha point with Sealapex sealer (GS); gutta-percha point with dentin activator and Superbond sealer (GDS); or gutta-percha point with Accel primer, dentin activator, and Superbond sealer (GADS). Amount of 0.06% methylene blue dye solution (MB) that leaked from the coronal portion to the apical area was measured with a spectrophotometer at one, four, eight, 15, and 30 days in an accumulative manner. The total amount of leaked MB on day 30 was significantly higher for GDS than the other combinations ( $p < 0.05$ ).

**Key words:**[Leakage](#), [Sealer](#), [Spectrophotometer](#)[\[PDF \(312K\)\]](#) [\[References\]](#)Download Meta of Article [\[Help\]](#)

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