

Author: [ADVANCED](#)

Volume Page

Keyword: [TOP](#) > [Available Issues](#) > [Table of Contents](#) > [Abstract](#)

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[\[PDF \(263K\)\]](#) [\[References\]](#)**Effect of Polymerization Accelerator on Dentin Bonding of One-step Bonding Agent**[Shogo WAKAMATSU](#)¹⁾ and [Takuji IKEMI](#)²⁾

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Abstract:

The aim of this study was to enhance the bond strength of one-step bonding agents to dentin. In particular, the focus was on using Catabrush™, the applicator system of AQ Bond Plus™. Catabrush was supplemented with N-phenylglycine and aromatic sulfinate as polymerization accelerators, as N-phenylglycine was reportedly beneficial in improving the bond strength to dentin. The results indicated that the bond strength to dentin was significantly augmented and the photo-polymerization as well as the chemical polymerization were both improved even in the moistened dentin when 1.0 wt% N-phenylglycine was added to AQ Bond Plus agent, hence implying significantly higher bond strength to dentin. It was therefore concluded that N-phenylglycine is useful as a polymerization accelerator to be adopted in the applicator system for one-step bonding agents.

Key words:[One-step bonding](#), [N-phenylglycine](#), [Applicator system](#)[\[PDF \(263K\)\]](#) [\[References\]](#)Download Meta of Article [\[Help\]](#)[RIS](#)[BibTeX](#)

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