





<u>TOP</u> > <u>Available Issues</u> > <u>Table of Contents</u> > <u>Abstract</u>

ONLINE ISSN: 1881-1361 PRINT ISSN: 0287-4547

Dental Materials Journal

Vol. 26 (2007), No. 4 p.506-513

[PDF (485K)] [References]

Effect of Resin Coating on Dentin Bonding of Resin Cement in Class II Cavities

Shamim SULTANA¹⁾, Toru NIKAIDO¹⁾, Khairul MATIN¹⁾²⁾, Miwako OGATA¹⁾, Richard M. FOXTON³⁾ and Junji TAGAMI¹⁾²⁾

- 1) Cariology and Operative Dentistry, Department of Restorative Sciences, Graduate School, Tokyo Medical and Dental University
- 2) Center of Excellence Program for Frontier Research on Molecular Destruction and Reconstruction of Tooth and Bone, Tokyo Medical and Dental University
- 3) King's College London Dental Institute at Guy's, King's College and St. Thomas' Hospitals

(Received August 18, 2006) (Accepted February 24, 2007)

Abstract:

This study was designed to evaluate the efficacy of resin coating on the regional microtensile bond strength (MTBS) of a resin cement to the dentin walls of Class II cavities. Twenty mesio-occlusal cavities were prepared in human molars. In 10 cavities, a resin coating consisting of a self-etching primer bonding system, Clearfil SE Bond, and a low-viscosity microfilled resin, Protect Liner F, was applied. The other 10 teeth served as a non-coating group. After impression taking and temporization, they were kept in water for one day. Composite inlays were then cemented with a dual-cure resin cement, Panavia F 2.0, and stored in water for one day. Thereafter, MTBSs were measured. Two-way ANOVA (p=0.05) revealed that the MTBS of resin cement to dentin was influenced by resin coating, but not by regional difference. In conclusion, application of a resin coating to the dentin surface significantly improved the MTBS in indirect restorations.

Kev words:

Regional bond strength, Indirect restoration, Dual-cure resin cement

[PDF (485K)] [References]

Download Meta of Article[Help]

<u>RIS</u>

BibTeX

To cite this article:

Shamim SULTANA, Toru NIKAIDO, Khairul MATIN, Miwako OGATA, Richard M. FOXTON and Junji TAGAMI. Effect of Resin Coating on Dentin Bonding of Resin Cement in Class II Cavities . Dent. Mater. J. 2007; 26: 506-513 .

doi:10.4012/dmj.26.506

JOI JST.JSTAGE/dmj/26.506

Copyright (c) 2009 The Japanese Society for Dental Materials and Devices











Japan Science and Technology Information Aggregator, Electronic

