

Author:  [ADVANCED](#)

Volume Page

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

ONLINE ISSN : 1881-1361

PRINT ISSN : 0287-4547

**Dental Materials Journal**

Vol. 28 (2009) , No. 1 p.96-101

[\[PDF \(450K\)\]](#) [\[References\]](#)**Effectiveness of surface protection for glass-ionomer, resin-modified glass-ionomer and polyacid-modified composite resins**[Serpil KARAOGLANOGLU<sup>1\)</sup>](#), [Nilgün AKGÜL<sup>1\)</sup>](#), [Hatice Nur ÖZDABAK<sup>1\)</sup>](#) and [Hayati Murat AKGÜL<sup>2\)</sup>](#)

1) Department of Restorative Dentistry, School of Dentistry, Atatürk University

2) Department of Oral Diagnosis and Oral Radiology, School of Dentistry, Atatürk University

(Received March 31, 2007)

(Accepted December 18, 2007)

**Abstract:**

The purpose of this study was to evaluate the effectiveness of several surface protectors for a glass-ionomer, a resin-modified glass-ionomer, and a polyacid-modified resin cement by determining dye uptake spectrophotometrically.

378 samples, made up of Ionofil U, Vitremer, and Dyract, were prepared and divided into groups of seven each. Positive and negative control specimens remained unprotected while the experimental specimens were protected with Finishing Gloss, Protect-It, LC Varnish, Adper Single Bond, or a nail varnish. The experimental groups and positive controls were immersed in 0.05% methylene blue solution, while the negative controls were immersed in deionized water. Results were evaluated using variance analysis.

Of the Ionofil U group, Adper Single Bond exhibited the least effective surface coating among the materials tested, while the best surface protection was obtained with LC Varnish in the Dyract group. However, no statistically significant differences were observed in the Vitremer group.

**Key words:**[Surface protection](#), [Glass-ionomer cement](#), [Polyacid-modified composite resin](#)

To cite this article:

Serpil KARAOGLANOGLU, Nilgün AKGÜL, Hatice Nur ÖZDABAK and Hayati Murat AKGÜL. Effectiveness of surface protection for glass-ionomer, resin-modified glass-ionomer and polyacid-modified composite resins . Dent. Mater. J. 2009; 28: 96-101 .

---

doi:10.4012/dmj.28.96

JOI JST.JSTAGE/dmj/28.96

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

---



---

[Japan Science and Technology Information Aggregator, Electronic](#)

