

A preventive measure for debonding has not been established and is highly desirable to improve the survival rate of computer-aided design/computer-aided manufacturing (CAD/CAM) composite resin (CR) crowns. ... Osaka University Dental Hospital (Ethical Review Board at Osaka University, approval H27-E11). The data set consisted of a total of 24 ...

The aim of this study is to test this theory and to examine the possibility of detecting subsurface resin composite restoration debonding by measuring the superficial shrinkage displacements ...

Evaluation of Different Adhesive Resin Removal Methods after Debonding Ceramic Orthodontic Molar Tubes: A Scanning Electron Microscope Study. November 2022; Scanning 2022(2):1-7;

After debonding adhesive resin is removed from the buccal surface of 80 premolars. Based on the Bur used for polishing the tooth surface it is divided into four groups of 20 each.

The Chinese Academy of Science has developed a new technique that uses non-toxic lemonene as a reagent to control the degree of EVA expansion during the decapsulation ...

Adhesion and Debonding Kinetics in PV Devices and Modules. Collaborators: Stephen Eglash / Stanford David Miller and Sarah Kurtz / NREL Mike Wiemer, Taner Bilir and Homan Yuen / ...

It has been proved that the use of debonding pliers, scalers & diamond finishing burs for removing the residual resin after debonding procedure should not be used as it may lead to deep gouges in enamel.<sup>20</sup> It is recommended to use a tungsten carbide bur 12-bladed (fig. 12) at higher speed along with ample air cooling to take out the bulk resin and the underneath enamel & residual ...

nated as resin 1 and 2 - both vinyl-ester based and resin 3 - polyester based, are used in the wrapping procedure to investigate impact of fracture toughness of resins on the joint resistance.

oThe debond energy of a PV encapsulant and backsheets were measured after several ageing treatments. The debond energy decreased with ageing treatment duration, relative humidity ...

Photovoltaic backsheets are exposed to harsh outdoor weathering conditions throughout their service lives that can compromise their protective function, through adhesive ...

Debonding of photovoltaic (PV) encapsulation in moist environments is frequently reported but presently not well understood or quantified. Temperature cycling, moisture, and mechanical loads often cause loss of encapsulation adhesion and interfacial debonding, initially facilitating back-reflectance and reduced electrical

current, but ultimately leading to internal corrosion and loss ...

The most popular tool for residual resin removal is the use of Tungsten carbide bur as this method is rapid and effective.<sup>3, 4</sup> One step polishing systems which have diamond impregnated points like Pogo micropolishers showed to be promising to the clinician in removal of residual resin after bracket removal.<sup>1</sup> A new composite bur (Stainbuster bur) designed to gently remove cement, ...

Dhannawat PV, Gilani R, Shrivastav SS, et al. Debonding techniques - a review. *J Evolution Med Dent Sci* 2021;10(38):3430- 3435, DOI: 10.14260/jemds/2021/694 ... adhesive resin. Laser Debonding Optic laser technology was discovered in 1960s with the invention of ruby lasers. USFDA in 1980s & early 1990s began in early 1990s for debonding of ...

Since the 70's it was suggested that the removal of the composite remnants after debonding of orthodontic accessory with 30 strip tungsten drills provided less injury to the enamel.<sup>[3 5]</sup> Even with the different types of burs, for safer resin removal with minimal damage to the enamel it should be done with tungsten carbide drills in low speed.<sup>[10 12 17 18 19]</sup> When comparing ...

Now, the origin will move with a positive displacement ( $\Delta(0) = \frac{\epsilon_{\text{s}}}{2}$ ), i.e., to the right, while the right-hand end will move with a negative displacement of the same magnitude, i.e., to the left. Figure 3.1 shows graphically the shrinkage displacement profiles for these two cases. To save us from writing down units, the ...

Temporary bonding/debonding (TBDB) technologies have greatly contributed to the reliable fabrication of thin devices. However, the rapid development of large-scale, high-precision and ultra-thin devices in the ...

Our results demonstrate that debonding of the EVA-glass layer from the underlying Si cell can be accomplished in a selective and nondestructive manner using pulsed ...

Debonding initiated by exposure to light in the UV or VIS range is either based on photo-crosslinking of the adhesive formulation, photo-induced polymer degradation or photo-triggered phase changes [49]. Only recently, light triggered reactions for "debonding-on-demand" have been comprehensively reviewed by Hohl and Weder [50].

**Aim:** The objective of this study is to compare and evaluate enamel surface roughness after debonding and evaluated using four different finishing and polishing systems. **Materials and Methods:** After debonding adhesive resin is removed from the buccal surface of 80 premolars. Based on the Bur used for polishing the tooth surface it is divided ...

Significantly less adhesive remnant was left by the bioactive resin in the aged + acid-challenged group ( $P = 0.001$ ). **Conclusions:** Debonding forces for brackets bonded with the bioactive resin were comparable to those of a con-ventional orthodontic adhesive. In vitro, the bioactive resin showed the potential to reduce

demineralization

The results of the research were presented in "Effect of UV ageing on debonding of double glass laminates based on different crosslinking and thermoplastic PV encapsulants," published by Solar ...

DOI: 10.1016/j.jclepro.2024.141917 Corpus ID: 268700899; Effective decapsulation method for photovoltaic modules: Limonene-induced EVA controlled swelling under sonication and debonding mechanism analysis

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**ABSTRACT** The goal of this paper is to determine whether laser-induced surface melting can generate adhesive debonding. Commercial cyanoacrylate and acrylic ...

Bond strengths and remnant adhesive resin on the tooth surface after debonding for three bonding techniques used to attach foil mesh orthodontic brackets to 315 freshly extracted bovine incisor teeth were compared in an in vitro study. Each method of bonding used 105 teeth in groups of 15, bonded wi ...

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