

# 5 Ways

## Parkell's Predicta® Bioactive Cement Does More for Your Restorations



Placing indirect restorations should be one of the most satisfying appointments for clinician and patient. The patient is regaining esthetic and functional dentition, and when everything goes right with planning and fabricating the crown or bridge, the restoration glides into place, making for a quick, successful appointment.

Of course, delivering that restoration with ideal fit and a beautiful shade match will only make you and your patient feel good while it is in place and functional atop healthy tissue.

Unfortunately, not every restoration lasts as long as expected, and there remain numerous reasons indirect restorations fail. Some failures are due to actions by the patient and nothing can be done to avoid them. Other common causes of restoration failure can be minimized or eliminated with decisions made in the operatory, such as the way the tooth is prepped, the material used for the crown, and the choice of luting material and technique.

These decisions often inform one another. In some instances, prep design can impact material selection,

which can affect bonding technique, but material selection also influences how a tooth must be prepped, so it tends to be complicated.

Dentistry has always been about finding the best approach for the unique situation each patient presents. That does not mean you should not look for ways to simplify how you work to provide the best for your patients. You might not be able to use the same approach to every prep, and material selection is similarly constrained by the specifics of the situation being treated. However, by selecting products designed to do more for your restorations and patients, you can simplify and standardize some of your approach to indirect restoration delivery.

Parkell's new Predicta® Bioactive Cement is one of those standout products ready to help you efficiently provide long-lasting, healthy indirect restorations. Along with its self-adhesive, self-etching, and dual-cure properties, Predicta® adds bioactive properties that help address some of the previous shortcomings of universal resin cements.

Read on to learn about 5 key ways Predicta® Bioactive Cement does more for your restorations.

### 1 Fills and seals microgaps at the margin

Resin cements generally provide for greater ease of use and high bond strengths, but they do have their downsides. Like most cured resin materials, dental resin cements tend to shrink a little while being cured. This can often create microgaps around the margins, which in turn leads to microleakage beneath the restoration, and eventually recurrent decay, the need for further treatment, and often a replacement for the restoration.

Predicta® Bioactive Cement does not eliminate the issue of microgaps at the margins due to cement shrinkage. Instead, it helps fix the problem. The cement encourages robust hydroxyapatite formation across those microgaps beginning almost immediately after placement. By sealing these gaps at the restoration margins, the cement alleviates or prevents the microleakage often associated with recurrent decay.

“It's the result of years of research by our top-notch chemical team, who worked in close collaboration with universities and practicing dentists, and the results and feedback have been tremendous. Predicta Cement is a gorgeous product, which combines all of the premium properties and performance of traditional resin cements with robust hydroxyapatite formation at the margin and in microgaps. This, in turn, was found to equate to complete microgap occlusion as well as alleviation or prevention of microleakage (which is otherwise associated with an increased incidence of secondary caries).”

– David Mott, president of Parkell

### 2 Ideal working properties

When it comes to clinical workflows, simple is often better. A cement that only works properly if a complex protocol is followed to the letter is of little use to most busy dental practices. But a cement that offers technique flexibility and a simple workflow can make seating appointments less stressful and more rewarding for everyone involved. Predicta Bioactive Cement is that material because it is self-adhesive, self-etching, and dual cure. This allows the cement to be used in numerous workflows, but with the assurance that regardless of preferred bonding and etching protocol, Predicta Bioactive Cement will fully cure, and keep a restoration where it belongs.

### 3 Truly universal bonding across all substrates

One of the main reasons dental practices work with such a wide array of materials is compatibility. One cement might be ideal for use with zirconia, but glass ceramics might work better with something else. Having a varied armamentarium on hand can be helpful, but it also complicates things when it comes to techniques, not to mention keeping materials from expiring before they are used.

Predicta® Bioactive Cement is ready to alleviate this pain point. Designed for truly universal application, the material bonds well to the full range of indirect dental materials, including zirconia, and it can do this without requiring the use of an additional primer. This means Predicta® Bioactive Cement is just as versatile about material compatibility as it is everything else.

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#### Continuous release and recharge of beneficial ions

Dental materials are asked to do more today than they were in the past. At first it was just about filling in for missing dentin and enamel with something that would stay in place and allow proper function. Then, dental materials were designed for improved esthetics as restorations were expected to look and function like natural teeth. Today, bioactive materials are going a step further by helping to protect and enhance the oral environment.

As it says in the name, Predicta® Bioactive Cement is ready to meet this third material goal: it provides robust release of fluoride, calcium, and phosphate ions that have been shown to help encourage hydroxyapatite growth. Although an increasing number of new dental materials exhibit bioactivity, most of them are composites rather than cements, meaning there is a layer of potentially nonbioactive cement material between those materials and patients' dentition. With Predicta® Bioactive Cement, the bioactive ions are available directly to the patients' dentin and enamel.

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#### Optimal handling characteristics

Failure to properly clean up excess cement can cause sensitivity, irritation, and other postoperative complications. This can present a challenge because cements can be difficult to remove once fully cured, but deciding how long to cure before cleanup isn't always simple.

This makes having a cement that is easy to place where needed and then easy to clean up very important, and Predicta® Bioactive Cement is just that type of material. It provides the viscosity for easy placement, a low film thickness, and because the material is dual cure, it can be easily cleaned up without fear of the cement not being fully cured everywhere.

Ultimately, providing patients with treatments that continue to work for the long term should be the goal at every dental practice. Finding materials that make it easier to consistently accomplish this can bring big benefits to your practice and your patients.

With so many properties ready to work for you and your patients, Predicta® Bioactive Cement is ready to be your next universal solution. For more information, visit [parkell.com](http://parkell.com) or call 800-243-7446.

