volume IX
issue II
april 2005

BISDENT GLOBE

Supplying Dentists A World of Information!

FEATURE ARTICLE:
LOOKING FOR A BETTER WAY TO POLISH RESTORATIONS?

DISCOVER BisCover!!!

Discover BisCover™, the one product that will leave your restorations looking beautiful without the hassles of your current polishing technique. BisCover reduces polishing procedures to the simple stroke of a brush. Polishing your restorations with BisCover simultaneously seals each restoration, saving you time and, ultimately, money.

WHAT IS BisCover?

BisCover is one of the latest technological breakthroughs from Bisco. It is a brush-on liquid polish that doubles as an aesthetic sealant. It's, your answer to the question: How do I reduce the time-consuming procedure of manually polishing restorations?

HOW DOES BisCover WORK?

Once you light-cure BisCover (30 seconds at close range), it transforms into a hard, smooth polished surface without leaving a sticky oxygen-inhibited layer. It provides that natural appearing luster while sealing the surface of your restoration at the same time. You don't have to worry about wiping away an oxygen-inhibited layer because it doesn't exist.

Use BisCover to polish and seal:

- Anteriors and posteriors
- Directs and indirects
- Bis-acrylic and acrylic appliances
- Provisionals

Temporary bridge partially covered with BisCover. Courtesy of Dr. Robert Margeas

WHY DO I NEED BisCover?

You will need BisCover to make your life easier when polishing restorations. Paint your way to a high luster finish on all of your direct and indirect composites, provisional restorations and acrylic appliances. For those that are looking to do faster, easier and better dentistry, BisCover reduces or eliminates the need for manual polishing.

WHERE DO I USE BisCover?

BisCover can be used both intra-orally and extra-orally for all your direct and indirect composites, as well as, provisional restorations and acrylic appliances. It can be used on composites (cured and uncured), acrylic and bis-acrylic temporaries, and processed acrylic appliances (dentures, orthodontic appliances, space maintainers, etc.).

WHAT SHOULD I BE AWARE OF WHEN USING BisCover?

It is important to fully cure BisCover. It is always better to over-cure BisCover than to under-cure it. At close range (0-2mm), it is recommended to cure BisCover for 30 seconds using a halogen light with minimum

Continued On Page 3

CE Review:

Are You Battling Tooth Sensitivity?

BISCO's latest innovation, BisBlock™ , an Oxalate Dentin Desensitizer, was featured in Dr. Ian Shuman's continuing education course, TOOTH SENSITIVITY. His course accompanied your February issue of Dental Economics. Shuman reviews the most common complications, etiologies and treatment modalities found in the literature to manage tooth sensitivity. He presented techniques and products that were most commonly used in the literature. He also stated that based on the available research, BisBlock and its patented application technique seemed to be the most effective for long-term dentinal desensitization. Successful completion of this course will earn you four (4) continuing education credits. If you need a copy, give Bisco a call, 847-534-6000, and we'll forward a copy to you.

Technique:

BisBlock's Patented Total-Etch Technique:

BisBlock provides long-lasting relief from dentinal sensitivity by blocking the flow of fluid in the tubules through the formation of calcium oxalate crystals.

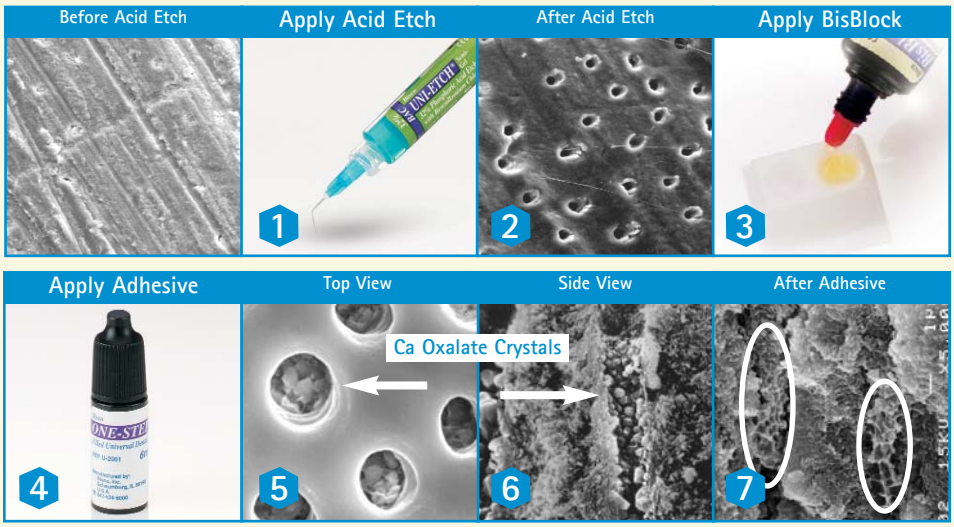


Figure 7: Shows polymerized adhesive that surrounds and entraps the crystals. During the preparation of the SEM sample, crystals are removed, resulting in the honeycomb appearance.

- Etch with 32% Phosphoric Acid for 15 seconds. (Figure 1)
- Rinse off the etchant and dry. (Figure 2)
- Apply BisBlock and let dwell for at least 30 seconds. (Figure 3)
- Rinse and leave moist for bonding*.
- Apply adhesive (according to manufacturer's instructions). (Figure 4)

(*If enamel is present, re-etch the enamel, then rinse and leave moist for bonding.)

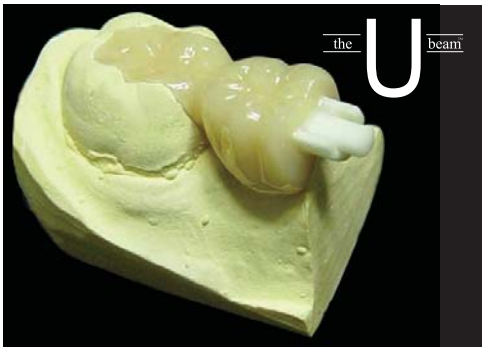
BISCO's patented technique of etching prior to BisBlock placement allows oxalate crystals to form deep within the tubules, which prevents the displacement of crystals (Figures 5 and 6). Application of a non-acidic adhesive (i.e. ALL-BOND® 2, ONE-STEP®, or ONE-STEP PLUS), allows the adhesive to enter the tubules, surround the calcium oxalate crystals, and form a plug upon polymerization (Figure 7). This plug prevents the movement of dentinal fluid, resulting in a reduction or elimination of sensitivity as described by the Hydrodynamic Theory[1].

1. Hydrodynamic Theory, Brännström's, Int Dent J, 1972

Presenting:

Bisco's Lab Division

After many years of research and development, the Tescera™ ATL™, Bisco's Indirect Composite System, is receiving high praises from independent evaluators such as REALITY and the THE DENTAL ADVISOR. The Tescera ATL yields exceptional physical properties and is highly wear and stain resistant producing void-free restorations.



The U-Beam combines the strength of 2 vertical "I-Beams" for cuspal support and horizontal strength while providing a long-lasting, durable, metal-free bridge.

Request Tescera for your lab fabricated inlays, onlays, crowns and bridges. That's right - Bridges! Bridges that utilize the technology of U-Beam™, a rigid, non-flexing fiber material comprised of a pre-tensed quartz fiber matrix. To find a lab that is certified in Tescera Technology, search the Tescera Lab Finder link on the left side of the home page at www.bisco.com or contact Zoran Pantelin at 1-800-247-3368 x6035.

PS. We invite you to share photos of your Tescera Restorations for future publications or advertisements. Call Zoran for details on getting your photos published.

Shop online @ www.bisco.com

O D A Y

HAVE YOU DISCOVERED
BISCOVER™ LIQUID POLISH?

DISCOVER BISCOVER

CONTINUED FROM PAGE 1

output of 500mW/cm². If you hold the curing light more than 2mm away from the surface, you will have to increase curing time to compensate for the decrease in energy/intensity reaching the surface. You should use a halogen (Quartz Tungsten Halogen) light.

WHAT HAPPENS IF I UNDER-CURE BisCover?

When the BisCover is under-cured, the restoration will absorb stains. It is also possible that the BisCover may flake off. If this occurs, follow the instructions for reapplication.

CAN I USE A LIGHT BOX TO CURE BisCover?

Yes. BisCover may also be cured in a commercially available light box. You may choose to use a light box to cure BisCover coated appliances. Refer to the BisCover instructions for details on using a light box for curing.

WHAT SHOULD I EXPECT FROM BisCover?

You can expect to do away with your traditional polishing techniques. BisCover easily seals and protects in seconds while leaving a dazzling, high gloss finish on restorations and appliances. It has no unpleasant odor and when used on composites, it may be used before light-curing or after a brief cure, leaving the restorations with a finish that matches the natural dentition. BisCover has a low film thickness so it does not interfere with occlusion and does not require occlusal adjustment. It also has a low rate of wear and on anteriors, where aesthetics matter the most, it can last up to five years or more.

DO I HAVE TO MIX BisCover?

No, it is not necessary to mix BisCover. If desired, there is an optional viscosity modifier (viscosity modifier must not be used on uncured composite) included in the kit that gives you control over the viscosity. Some clinicians use viscosity modifier with BisCover for larger areas (i.e. appliances). They believe that it spreads more easily and produces a thinner and more even film thickness.

WHAT PROBLEMS DO I FACE WITH TRADITIONAL POLISHING PROCEDURES?

Traditional polishing procedures are potentially damaging to adjacent tooth structure and may produce surface imperfections on the restoration. They are not only messy but also produce a lower gloss than BisCover. Ultimately, traditional techniques are costly because they are time consuming and require multiple products to achieve a polish.

HOW CAN I PREVENT UNDER-CURING BisCover?

Under-curing occurs for many reasons including: 1) Residue build up on the tip of the light reduces energy emitted, 2) Curing light is held away from the surface (light scatter reduces energy reaching surface), 3) Light bulb is old and needs replacement (bulb emits less energy with age), 4) Reflector needs to be cleaned (dust collects on the reflective surface), 5) Curing unit doesn't generate enough intensity (typical of an aging unit), and 6) You are not using a halogen (QTH) light or one of the LED's that have been proven to cure BisCover.

Tell Us What YOU THINK...

At BISCO, we strive to meet the needs of dental professionals. As such, we invite you, our valued customer, to provide us with feedback.

Please send us a material tip or technical question and we will share your contribution in an upcoming issue of the BisDent Globe!

Forward your thoughts to:
Dr. Chris Pappas,
Editor-In-Chief, BisDent Globe
Fax: 847-891-5049

Bisco Institute - CE

Call To Register:
800.247.3368

May 20, 2005
9:00 AM - 4:00 PM

Dr. Tony Pensak
Earn 6 CEU's

Aesthetic and Occlusal Rehabilitation
Separating Myth from Reality

Lecture and Hands-on Course
$250.00 Doctors

Bisco Auditorium / Schaumburg, IL