Bisco

DUO-LINK UNIVERSAL™ KIT

Adhesive Cementation System

CE 0459

Instructions for Use

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Caution: U.S. Federal law restricts this device to sale by or on the order of a licensed Dentist.

DUO-LINK UNIVERSAL™ KIT
ADHESIVE CEMENTATION SYSTEM

GENERAL INFORMATION

The **DUO-LINK UNIVERSAL KIT** is an adhesive cementation system designed for final cementation of ALL indirect restorations. The combination of adaptability and ease of cementation and durability of porcelain, bridges (fixed prostheses), onlays, inlays and posts/dowels, fabricated from metal, composite, porcelain, ceramic, zirconia, alumina, etc.

BISCO's ALL-BOND UNIVERSAL™ is a light-cured single-component dental bonding agent that offers the versatility for self- or selective-etch cementation. **DUO-LINK UNIVERSAL** is a dual-curing, auto-mix resin cement available in two esthetic shades, Universal and Milky White. **DUO-LINK UNIVERSAL** cement provides all of the desired properties for a successful cementation: high adhesion, high radiopacity, high mechanical strength, high bond strength, low film thickness, and easy clean-up. PORCELAIN PRIMER® is known to enhance the wettability of glass substrates, providing better adhesion. This primer also increases physical, mechanical and chemical bonding of resin cement to porcelain, and yields a greater resistance to water attack at the bonding interface. Finally, the unique combination of PRIMER and ALL-BOND UNIVERSAL makes it a versatile primer for surface treatment of Zirconia and Alumina metal oxide ceramics as well as metals/alloys, composites and endodontic posts. Both Z-PRIME Plus and PORCELAIN PRIMER were specifically formulated to provide high bond strengths without requiring light-curing.

Indications for Use:

1. All indirect restorations (i.e. crowns, fixed prostheses (bridges), inlay, onlays fabricated from metal composite, porcelain, ceramic, zirconia, aluminum oxide ceramics, etc.).
2. All endodontic posts (i.e. fiber, composite and metal/zirconia)
3. Cementation of indirect restoratives (i.e. screws and crowns).
4. Veneers (composite, all-ceramic and zirconia)

Contraindications:

- Do not use ALL-BOND UNIVERSAL on patients who have a history of severe allergic reactions to methacrylate resins.

Warnings:

- Z-PRIME Plus, ALL-BOND UNIVERSAL and PORCELAIN PRIMER are highly flammable.
- This product may not be appropriate for use in patients who have a history of allergic reactions to methacrylate resins.
- Avoid splashing into the eyes. If ALL-BOND UNIVERSAL comes into contact with the eyes, flush with copious amounts of water and seek medical attention immediately. In case of irritation, consult a physician.
- The phosphoric acid in the etchant is a severe eye and skin irritant. Injury may result if the etchant is allowed to remain in the eyes or on the skin or mucosa for extended periods. If accidentally splashed into the eye, flush with copious amounts of water and seek medical attention immediately. In case of contact with other tissues, flush immediately with water. Consult a physician.
- Contamination by saliva, blood, or water should be avoided during these procedures. When using dental adhesives, apply an additional coat of ALL-BOND UNIVERSAL since moisture may result in decreased longevity of the restoration.
- A rubber dam is recommended for all indications where contamination may be possible.

Cautions:

- Post-cementation: Product may contain items that are designed for one time use. Dispose of used or contaminated accessories. Do not clean, disinfect or reuse.

Precautions:

- ALL-BOND UNIVERSAL is a light-curable material. Use ALL-BOND UNIVERSAL immediately once it is dispensed or transfer the material into a light-resistant syringe and dispensing tip to prevent premature gelation and thickening of the adhesive.
- To avoid evaporation of ALL-BOND UNIVERSAL, keep container tightly closed.
- Z-PRIME Plus is a light sensitive material. Use Z-PRIME Plus immediately once it is dispensed in the mixing well or protect from ambient light.
- Avoid contact with the skin; uncured resins may cause skin sensitization in susceptible persons. In case of contact, wash skin with soap and water.
- KZE contaminated materials should be placed on the tooth structure within 2-3 weeks, adequately clean the tooth surface with an abrasive prior to adhesive use.
- The emitting tip of the dispenser syringe should be held as near and vertical to the resin surface as possible. If a large resin surface is to be light-cured, it is advisable to divide the area into several sections and light cure each section separately.
- Low curing light intensity causes poor adhesion.
- Working and light cure times will be adversely affected in the warm intraoral environment.
- To prevent polymerization or clogging, the dual-syringe mixing tip should be left in place until the next application. If used intraorally, wipe mixing tip with disinfectant, and reuse.
- Use individual component labels for specific exploration dates.
- Do not use mixing tips for periodontal probes. Use a separate disposable material for bonding procedure as these materials may inhibit bonding.
- Safety data sheet available on request.
- Safety data sheet available at www.bisco.com.

TECHNICAL INFORMATION

Working Time: Minimum 2 minutes at 22°C (71.6°F)

Setting Time: Maximum 3 minutes at 22°C (71.6°F).

Working time and setting time may vary based on storage conditions, temperature, humidity, etc.

Excess material is light-cured with a LED polymerization light for 2-3 seconds per quarter surface (mesio-facial, disto-facial, disto-lingual, mesio-lingual) at a distance of approximately 0-10 mm.

INSTRUCTIONS FOR USE

Cementation of Glass Ceramics/porcelain (silica-based) or Lithium Disilicate/Silicate Restorations:

A. Restoration Preparation

1. Upon removal of the sandblasted and etched restoration, brush on 1 coat of PORCELAIN PRIMER to the internal surface of the restoration and allow to dwell for 30 seconds. Dry with air syringe for 3-5 seconds.
2. After try-in, decontaminate the internal surface of the restoration (phosphoric acid or 2 minutes ultrasonic cleaning in water) will remove organic contaminants. Rinse and dry. Silanize using the PORCELAIN PRIMER intact. Rinse and air dry.

B. Tooth Preparation

1. Choose either the **SELF-ETCHING TECHNIQUE** or the **TOTAL-ETCHING TECHNIQUE** below.
   - **SELF-ETCHING TECHNIQUE:** Prepare a cavity. Place a rubber dam. Rinse abundantly (wash out any absorbent pellet or high volume evacuation (HVE) for 1-2 seconds, to remove excess water (do not desiccate). **NOTE:** BISCO's SELECT HV™ ETCH may be used to remove smear layer and create micromechanical retention. This etchant was designed for precise selective placement.
   - **TOTAL-ETCHING TECHNIQUE:** Prepare a cavity. Place a rubber dam. Apply phosphoric acid with water spray. Etch enamel and dentin using an etchant for 15 seconds. Rinse thoroughly. Remove excess water by blotting the surface with an absorbent pellet or high volume evacuation (HVE) for 1-2 seconds, leaving the preparation visibly moist.
2. Dispense 1-2 drops of ALL-BOND UNIVERSAL into a clean well. Replace the cap onto the bottle promptly to avoid evaporation of solvent.
3. Apply two separate coats of ALL-BOND UNIVERSAL, scrubbing the preparation with a microbrush for 10-15 seconds per coat. Do not light cure between coats.
4. Evaporate excess solvent by thoroughly air-drying with an air syringe for at least 10 seconds; there should be no visible movement of the adhesive. The surface should have a uniform glossy appearance; otherwise, apply an additional coat of ALL-BOND UNIVERSAL and repeat Steps 4-5. **NOTE:** Due to the amount of solvent, ALL-BOND UNIVERSAL is easily spread thin and will NOT affect cemented dimensions, even with light finger restoration.
5. Light cure for 10 seconds.
6. Continue with cementation.

C. Cementation

Cement Mixing Procedures:

1. Remove the syringe cap from the dual-syringe.
2. Dispense a small amount of material onto a mixing pad to eliminate any voids in each chamber of the dual-syringe.
3. Attach a mixing tip to the dual-syringe by lining up the key and keyway. Then turn the brown locking mechanism clockwise.
4. Pressing the plunger will mix and dispense **DUO-LINK UNIVERSAL**. (See "TECHNICAL INFORMATION" Section for Working and Setting Time information.)

Cementation Procedures:

1. Using the rod provided, bring to inject **DUO-LINK UNIVERSAL** into the canal. Start at the apical end of the canal and withdraw the tip slowly while keeping the tip in the cement to minimize voids.
2. Coat the cement on the prepared tooth surface.
3. Seat the post into the canal gently and maintain firm pressure for 20-30 seconds once the post is seated.
4. Optional: after excess cement has been removed, light cure for 40 seconds from occlusal.

HYGIENE: Maintenance of the restoration margins is important to prevent any contamination of the **DUO-LINK UNIVERSAL** auto-mix dual-syringes during the treatment is recommended.

DISPOSAL: Refer to community and/or regional disposal rules for proper disposal, refer to national or regional provisions relating to waste.

STORAGE: Store at room temperature (20°C/68°F - 25°C/77°F). See individual component labels for specific expiration dates.

WARRANTY: BISCO, Inc. recognizes its responsibility to replace products if proven to be defective. BISCO, Inc. does not accept liability for any damages or loss, either direct or consequential, stemming from the use of or inability to use the product when combined with other products. BISCO, Inc. does not warrant or guarantee the suitability of the product for its intended use. The user assumes all risk and liability in connection therewith.

ALL-BOND UNIVERSAL, Z-PRIME PLUS and PORCELAIN PRIMER are trademarks of BISCO, Inc.
DUO-LINK UNIVERSAL, Z-PRIME and SELECT HV are trademarks of BISCO, Inc.
PORCELAIN PRIMER is manufactured for BISCO, Inc.

DE DUO-LINK UNIVERSAL™ KIT
ADHÄSIVES ZEMENTIERUNGSSYSTEM

ALLGEMEINE INFORMATIONEN

Das **DUO-LINK UNIVERSAL KIT** ist ein adhäsives Zementierungssystem für die definitive Zementierung **ALLER indirekten Restaurationen**. Die Produktkombination sorgt für festen Halt und Haltbarkeit von Porzellan, Brücken (festen Prothesen), Onlays, Inlays und Stiften/Pins aus Metall, Komposit, Porzellan, Keramik, Zirkonoxid, Aluminiumoxid usw.

ALL-BOND UNIVERSAL™ von BISCO ist ein lichthärtendes Einkomponenten-Dental-Bonding, das Flexibilität für total- selbst- und selektiv ätzende Verfahren bietet. **DUO-LINK UNIVERSAL** ist ein duallhärtender auto-Kanal-Kompositzement in zwei Farbtönen, Universal und Milky White, mit hervorragenden mechanischen Eigenschaften: hoch radiopaque, high mechanical strength, high bond strength, low film thickness, and easy clean-up. PORCELAIN PRIMER® is known to enhance the wettability of glass substrates, providing better adhesion. This primer also increases physical, mechanical and chemical bonding of resin cement to porcelain, and yields a greater resistance to water attack at the bonding interface. Finally, the unique combination of PRIMER and ALL-BOND UNIVERSAL makes it a versatile primer for surface treatment of Zirconia and Alumina metal oxide ceramics as well as metals/alloys, composites and endodontic posts. Both Z-PRIME Plus and PORCELAIN PRIMER were specifically formulated to provide high bond strengths without requiring light-curing.

Indikationen für Gebrauch:

1. Alle indirekten Restaurationen (z. B. Kronen, fixierte Prothesen (Brücken), Inlays, Onlays aus Metall, Komposit, Porzellan, Keramik, Zirkonoxid und Aluminiumoxid, sowie CAD/CAM-Restaurationen)
2. Alle Wurzelstifte (z. B. Glasfaser, Komposit und Metall/Zirkonoxid)
3. Alle zementierten Implantatversorgungen (z.B. Schrauben und Kronen)
4. Veneers (Komposit, Vollkeramik und Zirkonoxid)

Kontraindikationen:

- ALL-BOND UNIVERSAL nicht bei Patienten mit bekannten schweren allergischen Reaktionen auf Methacrylat-Harze anwenden.

Warnhinweise:

- Z-PRIME Plus, ALL-BOND UNIVERSAL und PORCELAIN PRIMER sind hochentzündlich.
- Dieses Produkt kann für Patienten mit bekannten allergischen Reaktionen auf Methacrylat-Harze.
- Spritzer in die Augen vermeiden. Falls ALL-BOND UNIVERSAL in Kontakt mit den Augen gelangt, mit reichlich Wasser spülen und einen Arzt aufsuchen.
- Die in Ätzgel enthaltene Phosphorsäure ist ein ätzender Augen und Haut schwer. Es kann zu Verletzungen kommen, wenn das Ätzgel längere Zeit auf Haut oder Schleimhaut einwirkt. Wenn versehentlich etwas in das Auge spritzt, mit reichlich Wasser spülen und sofort einen Arzt aufsuchen. Falls es mit Haut oder anderen Geweben sofort mehrere Minuten lang gründlich mit Wasser abspülen.
- Bei der Anwendung kühlen Kühlmittel oder Wasser sollte der Kontakt mit Wasser vermieden werden. Bei der Verwendung von Dentaladhäsiven wird die Dentinhaftung durch Kontaminationen beeinträchtigt und dadurch die Haltbarkeit der Restauration unter Umständen verkürzt.
- Für alle Indikationen, bei denen Kontaminationen möglich sind, wird ein Kofferdam empfohlen.

Vorsicht:

- Kreuz-Kontamination: Das Produkt kann Teile enthalten, die für den einmaligen Gebrauch bestimmt sind. Gebrauchte oder kontaminierte Zubehör ist zu entsorgen. Nicht reinigen, desinfizieren oder erneut verwenden.

Vorsichtsmaßnahmen:

- ALL-BOND UNIVERSAL ist ein lichthärtbares Material. ALL-BOND UNIVERSAL unverzüglich verwenden, sobald es in die Ammischbehälter ausgetragen wurde. Eine längere Exposition gegenüber Luft und Licht kann dazu führen, dass das Lösemittel verdunstet und das Adhäsiv eindickt.
- Um eine Verdunstung von ALL-BOND UNIVERSAL zu vermeiden, den Behälter fest verschlossen halten.
- Z-PRIME Plus ist ein lichtempfindliches Material. Z-PRIME Plus unverzüglich verwenden, sobald es in die Ammischbehälter ausgetragen wurde. Eine längere Exposition gegenüber Licht kann dazu führen, dass das Lösemittel verdunstet und das Adhäsiv eindickt.
- Kontakt mit der Haut vermeiden; unausgehärtete Harze können bei empfindlichen Personen Hautsensibilisierungen verursachen. Bei Hautkontakt mit Seife und Wasser waschen.
- KZE-kontaminierte Materialien sollten innerhalb von 2-3 Wochen auf die Zahnoberfläche aufgetragen werden, bei Verwendung von Dentaladhäsiven wird die Dentinhaftung durch Kontaminationen beeinträchtigt und dadurch die Haltbarkeit der Restauration unter Umständen verkürzt.
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SYSTEMA ALL-IN-ONE COMPATIBILE ALL'ACIDO
TECNICA DI CEMENTAZIONE
TECNICHE DI ADESIONE
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