

Adhesive Resin Cement

ESTECEM Plus

ENGLISH

Read all information, precautions and notes before using.

■PRODUCT DESCRIPTION AND GENERAL INFORMATION

- ESTECEM Plus is a dual-cure (light and/or self-cure), radiopaque, adhesive resin cement system with excellent handling, esthetic and adhesive properties to teeth and all prosthetic materials. It has radiopacity equal to or greater than 1mm aluminum, as classified as a Type 2 and Class 3 material by ISO 4049. The main components of the ESTECEM Plus KIT are the PASTE (A/B) and PALFIQUE UNIVERSAL BOND (A/B). The PASTE is dispensed in an automic syringe and is available in various shades (Universal, Clear, Brown and White-opaque). PALFIQUE UNIVERSAL BOND promotes the adhesion of PASTE to tooth structure. PALFIQUE UNIVERSAL BOND also enhances the adhesion of PASTE to all prosthetic materials.
- The PASTE contains Bisphenol A (di(2-hydroxy propoxy) dimethacrylate (Bis-GMA), Triethylene glycol dimethacrylate (Bis-GMA), Triethylene glycol dimethacrylate (TEGDMA), 2-Hydroxyethyl methacrylate (HEMA), MTU-6 (thiouracil monomer), Silane coupling agent, Peroxide, Borate catalyst, Acetone, Isopropanol and Purified water.
- The PASTE contains Phosphoric acid monomer, Bisphenol A (di(2-hydroxy propoxy) dimethacrylate (Bis-GMA), Triethylene glycol dimethacrylate (TEGDMA), 2-Hydroxyethyl methacrylate (HEMA), MTU-6 (thiouracil monomer), Silane coupling agent, Peroxide, Borate catalyst, Acetone, Isopropanol and Purified water.

■INDICATIONS

- Cementation of crowns, bridges, inlays, and onlays made of glass/oxide ceramics (porcelain, zirconia and alumina), metals/alloys (precious and non-precious) and resin materials including inorganic filler (composite materials).
- Repair of fractured porcelain fused to metal crowns and all ceramic restorations.
- Cementation of veneers.
- Cementation of adhesion bridges.
- Cementation of metal or resin cores, metal or glass-fiber posts.

■CONTRAINDICATIONS

ESTECEM Plus contains methacrylic monomers, organic solvents and acids. DO NOT use ESTECEM Plus for patients allergic to or hypersensitive to methacrylic monomers, related monomers, organic solvents and acids.

■PRECAUTIONS

- Use PALFIQUE UNIVERSAL BOND as primer for ESTECEM Plus PASTE. DO NOT use other primers or adhesives as primer for the adhesive surfaces.
- DO NOT use ESTECEM Plus for any purpose other than those listed in these instructions. Use ESTECEM Plus only as directed herein.
- ESTECEM Plus is designed for sale and use by licensed dental care professionals only. It is not designed for sale nor is it suitable for use by non-dental care professionals.
- DO NOT use ESTECEM Plus KIT, PASTE, or PALFIQUE UNIVERSAL BOND if the safety seals are broken or appear to have been tampered with.
- If ESTECEM Plus causes an allergic reaction or oversensitivity, discontinue its use immediately.
- DO NOT use PALFIQUE UNIVERSAL BOND on all times when handling ESTECEM Plus to avoid the possibility of allergic reactions from methacrylic monomers. Note: Certain substances/materials may penetrate through examination gloves. If the PASTE, or PALFIQUE UNIVERSAL BOND comes in contact with the examination gloves, remove and dispose of the gloves, and wash hands thoroughly with water as soon as possible.
- Avoid contact of the PASTE, or PALFIQUE UNIVERSAL BOND with eyes, mucosal membrane, skin and clothing.
 - If the PASTE, or PALFIQUE UNIVERSAL BOND comes in contact with the eyes, thoroughly flush eyes with water and immediately contact an ophthalmologist.
 - If the PASTE, or PALFIQUE UNIVERSAL BOND comes in contact with the mucosal membrane, wipe the affected area immediately, and thoroughly flush with water after the restoration is seated. PALFIQUE UNIVERSAL BOND on affected areas may whiten from protein coagulation, but such whitening should disappear within 24 hours. If such whitening does not disappear within 24 hours, immediately contact a physician, and the patient should be so advised.
 - If the PASTE or PALFIQUE UNIVERSAL BOND comes into contact with the skin or clothing, immediately saturate the area with alcohol-soaked cotton swab or gauze.
 - Instruct the patient to rinse his mouth immediately after treatment.
- The PASTE or PALFIQUE UNIVERSAL BOND should not be ingested or aspirated. Ingestion or aspiration may cause serious injury.
- To avoid the unintentional ingestion of the PASTE or PALFIQUE UNIVERSAL BOND, do not leave it unattended in the reach of patients and children.
- DO NOT expose PALFIQUE UNIVERSAL BOND or the vapor to open flame because PALFIQUE UNIVERSAL BOND is flammable.
- DO NOT use mixing wells supplied by other manufacturers.
- To avoid cross infection or lowering bond strength, DO NOT reuse the disposable applicator and the disposable mixing well. Clean the mixing well thoroughly with alcohol after each use.
- DO NOT use ESTECEM Plus directly to the cavity being in close proximity to the pulp. Pulp protection with glass ionomer lining or calcium hydroxide is recommended. DO NOT use EUGENOL BASED MATERIALS to protect the pulp as these materials will inhibit the curing of PALFIQUE UNIVERSAL BOND.
- When using a light-curing unit, protective eyes shields, glasses or goggles should be worn at all times.
- Be aware that when a restoration is shipped from misaligned occlusion or bruxism (clenching, grinding or tapping), the repaired restoration may chip again.
- DO NOT mix the PASTE or PALFIQUE UNIVERSAL BOND with other brands of paste, primers or adhesives.
- The PASTE or PALFIQUE UNIVERSAL BOND should be brought to room temperature before using. After removing from the refrigerator, allow the product to sit for 20 minutes or until it reaches room temperature.

■PRECAUTIONS FOR PASTE

- Use the Cument Mixing Tip or Mini Mixing Tip S included in this KIT when extruding the mixed PASTE.
- Use a clean instrument or explorer for the application or removal of the PASTE.
- To avoid unexpected hardening of the PASTE, after each use remove the mixing-tip from the automic syringe. Using a clean cloth or tissue wipe the excess paste from the syringe or remove prior to recapping the syringe using the cap provided with the syringe at the time of purchase.

■PRECAUTIONS FOR PALFIQUE UNIVERSAL BOND

- To avoid splashing the liquid, the bottles of PALFIQUE UNIVERSAL BOND should not be opened immediately after taking out of the refrigerator.
- Use the mixing well or disposable mixing well provided when dispensing and mixing of PALFIQUE UNIVERSAL BOND. If PALFIQUE UNIVERSAL BOND is not dispensed into the rubber mixing it may be difficult to remove the cured PALFIQUE UNIVERSAL BOND from mixing well. The cured PALFIQUE UNIVERSAL BOND can be removed by inverting the rubber.
- Some materials and medicaments (hemostatic material) inhibit setting/adhesion of PALFIQUE UNIVERSAL BOND.
 - DO NOT use products that contain:
 - eugenol,
 - aluminum chloride,
 - feric sulfate,
 - calcium sulfate,
 - aluminum sulfate,
 - diammine silver fluoride [molecular formula: Ag(NH₃)₂F]
- PALFIQUE UNIVERSAL BOND does not adhere to tooth structure immediately after applications of materials that contain:
 - hydrogen peroxide (oxidol),
 - sodium hypochlorite
- We advise avoiding the use of these materials on the tooth preparation, however these materials can be used for root canal treatment as the inhibition caused by these materials usually evaporates within five days.
- Be sure to hold the bottles of PALFIQUE UNIVERSAL BOND A and B vertically when dispensing. Do not hold the bottle diagonally or horizontally while dispensing, this could cause the patient to blow back into the nozzle and become contaminated.

■STORAGE

- Store under refrigeration at temperatures between 0 to 10 °C (32 to 50°F).
- Keep away from heat, direct sunlight, sparks and open flames.
- DO NOT use after the indicated expiration date on the syringe/bottle/package.

■DISPOSAL

- To dispose of the PASTE, extrude unused paste from the automic syringe, mix and allow paste to harden before disposal.
- Unused PALFIQUE UNIVERSAL BOND is to be absorbed into an inert absorbent material such as gauze or cotton, and disposed of in accordance with local regulations.

■CLINICAL PROCEDURES

- 1. Tooth Preparation**
 - Remove contamination from the tooth surface such as plaque, temporary cement residue, oil from materials to test crown fit, oil mist from a hand-piece, saliva, blood and exudates fluids by brushing with floss fumice, ultrasonic scaling or cleaning the surface of the tooth with alcohol. Thoroughly rinse and dry the surface.
 - If the adherent surface involves uncut enamel, apply etching agent to the uncut enamel. See section "Selective-enamel-etch technique".
 - DO NOT desicate the vital tooth. Desiccation can lead to post-operative sensitivity.

2. Etching of the tooth structure (optional)

Clinically adequate adhesive bonds are achieved by the application of the adhesive. Selectively etching the enamel or using the "total etching procedure" can achieve higher adhesive values.

(a) Selective-enamel-etch technique

Apply phosphoric acid gel only to the enamel surrounding the margin of prepared cavity and leave phosphoric acid gel in place for 10-15 seconds. Rinse the etched surface thoroughly (at least 15 seconds) with water, and then dry with mild air.

(b) Total etch technique

Apply phosphoric acid gel onto the prepared enamel first, and then the dentin. The etchant should be left to react on the enamel and dentin for 10-15 seconds. Thoroughly (at least 15 seconds) with water and dry with mild air or with cotton pellets; do not overdry.

3. Restoration Preparation

Follow the procedure shown below, depending on the material to be restored.

- Ceramics other than Porcelain, and Composite materials
 - Roughen the interior of the restoration by sandblasting (0.1 to 0.2MPa), air abrasion or grinding with a diamond bur using a slow speed to prepare the surface for adhesion. Thoroughly rinse and dry the surface.
- Porcelain
 - DO NOT roughen the surface; Prepare the interior of the restoration, providing a clean and fresh surface for adhesion. Thoroughly rinse and dry the surface.
- Metal restorations
 - Roughen the area by sandblasting (0.3 to 0.5MPa), air abrasion or grinding with a diamond bur using a slow speed to prepare the surface for adhesion. Thoroughly rinse and dry the surface.

- When using the sandblaster or air abrasion, use at least 30 to 50 micron grid of aluminum powder.

- If unable to roughen or prepare the adhesive surface, etch the area for adhesion with phosphoric acid then thoroughly rinse and dry.
- The substances listed below inhibit adhesion and must be removed from the adhesive surface by mechanical cleaning or alcohol soaking. Clean the restoration after adjustment is complete.
 - Gypsum and investment
 - Silicone oil from fit check material
 - Oil mist from handpiece
- Plaque, tartar, saliva, blood and exudate fluids
 - Temporary restoration and temporary cement

-If necessary, protect the surface not being bonded with metal separator, paraffin film,Vaseline, etc.

4. Dispensing of PALFIQUE UNIVERSAL BOND

Allow PALFIQUE UNIVERSAL BOND to reach room temperature prior to use. Open the bottle by removing the cap and dispense one drop each of PALFIQUE UNIVERSAL BOND A and B into the mixing well or disposable mixing well. Mix thoroughly with a disposable applicator.

- Complete the application within 1 minute of dispensing when using the mixing well since PALFIQUE UNIVERSAL BOND contains volatile solvents. After mixing, the color of PALFIQUE UNIVERSAL BOND changes gradually based on the reaction of the tooth and the PASTE. PALFIQUE UNIVERSAL BOND is this normal and does not indicate a problem with PALFIQUE UNIVERSAL BOND.
- Complete the application within 3 minutes of dispensing when using the disposable mixing well.
- Wipe off excess PALFIQUE UNIVERSAL BOND from the tip of the nozzle prior to closing.
- Immediately after dispensing, tightly replace the bottle caps of PALFIQUE UNIVERSAL BOND A and B.

5. Restoration Pretreatment with the PALFIQUE UNIVERSAL BOND

- Application
 - Using the disposable applicator, apply the mixed PALFIQUE UNIVERSAL BOND on the surface to be bonded.
 - Ensure PALFIQUE UNIVERSAL BOND covers all surfaces where the PASTE will be applied.
 - DO NOT over apply. One application of PALFIQUE UNIVERSAL BOND is sufficient. Too thick of a layer may compromise the fit of the restoration.
 - DO NOT apply saliva, blood, oil, water etc. to come in contact with the surface to be bonded. If the treated surface is contaminated, thoroughly rinse with water, dry and re-apply fresh PALFIQUE UNIVERSAL BOND.
 - DO NOT wait too long after the application of PALFIQUE UNIVERSAL BOND. Air dry within 30 seconds after application, to ensure the appropriate film thickness.
- Air dry
 - Using an oil-free air/water syringe, apply mild air to the surface. Use a vacuum aspirator to prevent spatter of the PALFIQUE UNIVERSAL BOND.
 - Be sure to dry the surface after PALFIQUE UNIVERSAL BOND is applied.

6. Tooth (Adherent surface) Pretreatment with the PALFIQUE UNIVERSAL BOND

- Application
 - Using the disposable applicator, apply the mixed PALFIQUE UNIVERSAL BOND on the surface to be bonded.
 - Ensure PALFIQUE UNIVERSAL BOND covers all surfaces where the PASTE will be applied. Even if the adherent surface includes materials other than tooth structure such as ceramics, porcelain, composite, and/or metal, no extra primers are needed.
 - Dispensed PALFIQUE UNIVERSAL BOND can be used for both the restoration and tooth pretreatment if used within 1 minute using the mixing well or 3 minutes if using the disposable mixing well.
 - If the time after dispensing is over 1 minute (mixing well), or over 3 minutes (dispasible mixing well), DO NOT use dispensed PALFIQUE UNIVERSAL BOND due to the possibility of the poor coating properties or insufficient adhesion. If the time after dispensing exceeds the limit mentioned above (1 minute or 3 minutes), dispense again one drop each of PALFIQUE UNIVERSAL BOND A and B into the mixing well or disposable mixing well and mix thoroughly with a disposable applicator.
 - If PALFIQUE UNIVERSAL BOND pools on the cavity floor or a cavosurface angle and is too thick to air thin, remove the excess with a paper point or a new disposable applicator.
 - Be careful not to allow excess PALFIQUE UNIVERSAL BOND to flow into the subgingival. If PALFIQUE UNIVERSAL BOND flows into the subgingival, thoroughly rinse and dry the area.
 - DO NOT wait too long after the application of PALFIQUE UNIVERSAL BOND; this will lead to the possibility of the restoration not seating properly with cementation. Air dry within 30 seconds after application, to ensure the appropriate film thickness.

2) Air dry

Using an oil-free air/water syringe, apply weak air continuously to the PALFIQUE UNIVERSAL BOND surface until the runny PALFIQUE UNIVERSAL BOND stays in the same position without any movement. Finish by using mild air to the surface. Use a vacuum aspirator to prevent spatter of the PALFIQUE UNIVERSAL BOND.

- If saliva, blood, or other fluids contaminate the applied PALFIQUE UNIVERSAL BOND, thoroughly rinse with water, dry and re-apply fresh PALFIQUE UNIVERSAL BOND.
- DO NOT rinse the applied PALFIQUE UNIVERSAL BOND with water except in unintentional contamination.
- If accidental spattering occurs, it may cause the tissue to whiten or possible allergic reaction.

7. Cementation and Final Bonding

- Preparing the syringe and mixing tips
 - Before each use, remove the cap from automic syringe, and squeeze out a small quantity of paste A and B, making sure equal amounts are being dispensed through the two outlets of the syringe.
 - How to remove the cap: turn the cap 1/4 of a turn counterclockwise to align the hole in the syringe with the hole in the syringe. Holding the base of the cap, remove the cap by twisting and pressing downward.
 - DO NOT allow PASTE A to come into contact with PASTE B, there is a possibility of hardening of the PASTE at the tip of syringe. Wipe the excess PASTE from the tip of syringe with a clean cloth or tissue before using a new mixing tip.
 - If equal amounts of PASTE A and B are not dispensed, there is a possibility of poor polymerization. Ensure equal amounts are being dispensed through the two outlets of the syringe prior to attaching a mixing tip.
 - How to attach the mixing tip: align the projections on the adapter with the grooves in the syringe as closely as possible, and turn the mixing tip 1/4 of a turn clockwise to lock it in place.
 - After use, remove the mixing tip from automic syringe and replace the cap of the automic syringe.

2a) Cementation of Restoration

- Attach a Cument Mixing Tip to the syringe, squeeze PASTE (A and B) from the syringe and apply the mixed PASTE to the inner surface of the restoration. Place the restoration on the tooth with firm pressure. Any excess PASTE at the margin can be removed with a

brush tip

- DO NOT apply the PASTE directly to the prepared tooth or the cavity treated with PALFIQUE UNIVERSAL BOND to avoid incorrect seating of the restoration.
- To keep the appropriate film thickness, seat the restoration as soon as possible after the application of the PASTE (within 1 minute after dispensing), if not there is a possibility that the restoration will not seat properly with cementation.

2b) Placing the core or post

Attach a Mini Mixing Tip S and a Nozzle for Mini Mixing Tip to the syringe for application in the root canal. Apply the mixed paste over the entire adherent surface of the core or post, or the entire tooth surface within the cavity. Place the core or post quickly into the cavity, slightly vibrating it to prevent air bubbles from entering the root canals.

- The paste is applied directly into the cavity, place the core or post into the cavity within 30seconds after application of the PASTE.
- DO NOT use Lentulo spirals to insert the cement in the root canal as this can excessively accelerate setting.

8. Removal of Excess PASTE.

There are two methods for removal of excess PASTE.

- When using the light-cure method
 - Once the restoration is seated, light-cure the excess PASTE with a dental curing light for 2 to 4 seconds. The gel state of the excess PASTE can be easily removed.
 - Excess light curing will lead to difficult removal of the excess cement.
- When using the self-cure method
 - The gel state of the excess cement can be easily removed within 1 to 3.5 minutes after setting.
 - Waiting more than 3.5 minutes after seating will lead to difficult removal of the excess cement.
 - The setting time of the PASTE may change (approximately 20 seconds at the maximum) depending on the oral temperature in each clinical case.

9. Final Adjustment

- Final PASTE hardening
 - In case of translucent restoration materials such as ceramics or composite materials. Irradiate the light to the applied PASTE on the seated restoration for 20 seconds or more. When the adherent area is too large to be completed by a single light-cure, multiple cures are recommended.
 - Confirm that the light-curing unit has sufficient intensity (>500mW/cm²) before using. Note that using a cracked light guide will lower the intensity.
 - In case of non translucent restoration materials such as metal. Light-cure along margins for 20 seconds or more, then allow the PASTE to rest for 8 minutes with the patient applying normal occlusal pressure to the restoration.
- Finishing
 - When using a cracked light guide will lower the intensity.

Check patient's bite, if necessary. Re-polish the restoration with material of choice.

IMPORTANT NOTE:

The manufacturer is not responsible for damage or injury caused by improper use of this product. It is the personal responsibility of the user to ensure that this product is suitable for an appropriate application before use. Specifications are subject to change without notice. When the product specifications change, the instructions and precautions may also change.

ESPAÑOL

Lea toda la información, precauciones y notas antes de usar el producto.

■DESCRIPCIÓN DEL PRODUCTO E INFORMACIÓN GENERAL

1. ESTECEM Plus es un sistema de cemento radiopaco adhesivo de resina de doble polimerización (foto o autopolimerización), con excelentes propiedades de manipulación, estéticas y adhesivas para los dientes y todos los materiales protésicos. Tiene un nivel de radiopacidad igual o superior a 1 mm de aluminio y está clasificado como material de tipo 2 y clase 3 por ISO 4049. Los componentes principales del KIT ESTECEM Plus son el cemento PASTE (A/B) y PALFIQUE UNIVERSAL BOND (A/B). El cemento PASTE se dispensa en una jeringa de automixtura y es disponible en varios tonos (universal, transparente, marrón y blanco-opaco). PALFIQUE UNIVERSAL BOND promueve la adhesión del cemento PASTE a la estructura del diente. PALFIQUE UNIVERSAL BOND también mejora la adhesión del cemento PASTE a todos los materiales protésicos.

- El cemento PASTE contiene bisfenol A (di(2-hidroxí propoxi) dimetilacrilato (Bis-GMA), trietilenglicol dimetilacrilato (TEGDMA), bisfenol A polietoxi metacrilato (Bis-MPEPP), peróxido, camforquinona y relleno de sílice-zirconio (carga de 74 % en peso).
- El cemento PASTE contiene monómero de ácido fosfórico, bisfenol A (di(2-hidroxí propoxi) dimetilacrilato (Bis-GMA), trietilenglicol dimetilacrilato (TEGDMA), 2-hidroxietil metacrilato (HEMA), MTU-6 (monómero tioracil), agente de acoplamiento de silano, peróxido, catalizador de borato, acetona, isopropanol y agua purificada.

■INDICACIONES

- Cementación de coronas, puentes, inrustaciones inlay y onlay hechas de cerámicas vitreas/ óxidos (porcelana, zirconio y alumina), metales/alloys (preciosos y no preciosos) y materiales de resina, incluyendo relleno inorgánico (materiales compuestos).
- Reparación de porcelana fracturada en coronas metal-cerámica y todo tipo de restauraciones cerámicas.
- Cementación de carillas.
- Cementación de puentes adhesivos.
- Cementación de postes metálicos o de resina, pernos metálicos o de fibra de vidrio.

■CONTRAINDICACIONES

ESTECEM Plus contiene monómeros metacrilícos, solventes y ácidos orgánicos. NO use ESTECEM Plus con pacientes alérgicos o hipersensibles a los monómeros metacrilícos, monómeros relacionados, solventes orgánicos y ácidos.

■PRECAUCIONES

- Use PALFIQUE UNIVERSAL BOND como acondicionador para el cemento ESTECEM Plus PASTE. NO use otros acondicionadores o adhesivos como acondicionador para las superficies adhesivas.
- NO use ESTECEM Plus para otros fines aparte de los señalados en las instrucciones. Use únicamente ESTECEM Plus tal como se explica en estas instrucciones.
- ESTECEM Plus está concebido para venta y uso únicamente a profesionales acreditados de odontología. No está concebido para la venta ni puede ser usado por parte de profesionales de otros campos aparte de la odontología.
- NO use ESTECEM Plus KIT, PASTE o PALFIQUE UNIVERSAL BOND si los sellos de seguridad están rasgados o presentan indicios de haber sido alterados.
- Si ESTECEM Plus provoca una reacción alérgica o hipersensibilidad, interrumpa su uso inmediatamente.
- Use guantes de exploración (plástico, vinilo o látex) siempre que maneje ESTECEM Plus para evitar la posibilidad de que aparezcan reacciones alérgicas provocadas por los monómeros metacrilícos. Nota: Ciertos sustanciaes/materiales pueden penetrar a través de los guantes de exploración. Si PASTE o PALFIQUE UNIVERSAL BOND entran en contacto con los guantes de exploración, quíteselos, arrojelos a la basura y deseche los guantes.
- Evite el contacto de PASTE o PALFIQUE UNIVERSAL BOND con los ojos, las membranas mucosas, la piel y la ropa.
 - Si PASTE o PALFIQUE UNIVERSAL BOND entran en contacto con los ojos, láveselos bien con agua y póngase en contacto inmediatamente con un oftalmólogo.
 - Si PASTE o PALFIQUE UNIVERSAL BOND entran en contacto con las membranas mucosas, limpie la zona afectada inmediatamente y lávese bien con agua cuando la restauración esté asentada. Las áreas afectadas por PALFIQUE UNIVERSAL BOND pueden emborronarse debido a la coagulación de proteínas, pero dicho blanqueamiento debería desaparecer en un plazo de 24 horas. Si transcurridas 24 horas no desaparece el blanqueamiento, póngase en contacto con un médico y avise del caso al paciente.
 - Si PASTE o PALFIQUE UNIVERSAL BOND entran en contacto con la piel o la ropa, limpie inmediatamente el área con abundante alcohol con ayuda de un bastoncillo o una gasa.
 - De instrucciones al paciente para que se enjuague la boca inmediatamente después del tratamiento.
- PASTE o PALFIQUE UNIVERSAL BOND no deben ser ingeridos o aspirados. Su ingestión o aspiración pueden provocar daños graves.

- A fin de evitar la ingestión no intencionada de PASTE o PALFIQUE UNIVERSAL BOND, no deje el producto desatendido al alcance de pacientes o menores.
- NO exponga PALFIQUE UNIVERSAL BOND al vapor o al fuego, ya que PALFIQUE UNIVERSAL BOND son inflamables.
- NO use pocillos de mezcla suministrados por otros fabricantes.
- A fin de prevenir contaminación cruzada o disminución de la fuerza de adhesión, NO realice el aplicación de PASTE o el pocillo de mezcla desecharse. Limpie bien el pocillo del dispensador de cada con alcohol después de cada uso.
- NO use ESTECEM Plus directamente sobre la cavidad cercana a la pulpa. Se recomienda proteger la pulpa previamente. NO USE MATERIALES A BASE DE EUGENOL para proteger la pulpa, ya que dichos materiales inhibirán el curado de PALFIQUE UNIVERSAL BOND.
- Cuando use una unidad de fotocurado, utilice siempre protectores oculares o gafas.
- Tenga en cuenta que si una restauración se ha desprendido por maloclusión o bruxismo (rechinar, apretar o golpearlet los dientes), la restauración cementada puede desprenderse de nuevo.
- NO mezcle PASTE o PALFIQUE UNIVERSAL BOND con pastas, primeros o adhesivos de otras marcas.

7) Debe asegurarse que PASTE o PALFIQUE UNIVERSAL BOND alcancen la temperatura ambiente antes de su uso. Después de sacar el producto del refrigerador, déjelo fuera 20 minutos hasta que adquiera la temperatura ambiente.

5. Pretratamiento de la restauración con PALFIQUE UNIVERSAL BOND

- Aplicación
 - Use el aplicador desechable para aplicar el PALFIQUE UNIVERSAL BOND mezclado en la superficie destinada a la adhesión.
 - Asegúrese de que PALFIQUE UNIVERSAL BOND cubra todas las superficies donde se aplicará el cemento.
 - NO aplique en exceso. Una aplicación de PALFIQUE UNIVERSAL BOND es suficiente. Una capa demasiado espesa puede comprometer la adecuación de la restauración.
 - No deje que la saliva, la sangre, el aceite, el agua, etc. entren en contacto con la superficie destinada a la adhesión. Si la superficie tratada se contamina, enjuague minuciosamente con agua, seque y vuelva a aplicar PALFIQUE UNIVERSAL BOND.
 - No espere demasiado tiempo después de la aplicación de PALFIQUE UNIVERSAL BOND. Seque con aire en un plazo de 30 segundos después de la aplicación para asegurar un grosor adecuado de la película.
- Secado con aire
 - Aplique aire suave a la superficie con una jeringa de aire/agua sin aceite. Utilice una aspiradora de vacío para evitar salpicaduras de PALFIQUE UNIVERSAL BOND.
 - Asegúrese de que PALFIQUE UNIVERSAL BOND cubra todas las superficies donde se aplicará el cemento.

6. Pretratamiento del diente (superficie adhesiva) con PALFIQUE UNIVERSAL BOND

- Aplicación
 - Use el aplicador desechable para aplicar el PALFIQUE UNIVERSAL BOND mezclado en la superficie destinada a la adhesión.

■PRECAUCIONES PARA PASTE

- Cuando extraiga la mezcla de PASTE, use la Punta Cement Mixing Tip o la minipunta Mini Mixing Tip S que se incluyen en este KIT.
- Use un instrumento limpio o un explorador para aplicar o retirar el cemento PASTE.
- A fin de evitar un endurecimiento imprevisto de PASTE, después de cada uso saque la punta de mezcla de la jeringa de automezcla. Limpie el exceso de pasta de la punta de la jeringa con un paño limpio o pañuelo de papel antes de volver a ponerla la tapa incluida en el paquete de compra.

■PRECAUCIONES PARA PALFIQUE UNIVERSAL BOND

- A fin de evitar salpicaduras, debería evitarse abrir las botellas de PALFIQUE UNIVERSAL BOND inmediatamente después de sacarlas del refrigerador.
- Use el pocillo de mezcla o el pocillo de mezcla desechable suministrado cuando dispense o mezcle PALFIQUE UNIVERSAL BOND. Si PALFIQUE UNIVERSAL BOND no se dispensa en el mezclador de cemento, podría ser difícil retirarlo del pocillo de mezcla cuando esté polimerizado. PALFQUE UNIVERSAL BOND se puede retirar invirtiendo la goma.
- Algunos materiales y medicamentos (material hemostático) inhiben el endurecimiento/adhesión de PALFIQUE UNIVERSAL BOND.
 - NO use productos que contengan:
 - eugenol,
 - cloruro de aluminio,
 - sulfato de hierro,
 - sulfato de calcio,
 - sulfato de aluminio,
 - nitruro diamino de plata [fórmula molecular: Ag(NH₃)₂F]
- PALFIQUE UNIVERSAL BOND no se adhiere inmediatamente a la estructura del diente tras la aplicación de materiales que contienen:
 - peróxido de hidrógeno (oxidol),
 - hipoclorito de sodio
- Recomendamos evitar el uso de estos materiales el día de la cementación; sin embargo, estos se pueden utilizar para el tratamiento del conducto radicular, ya que la inhibición que causan normalmente se evapora en un periodo de cinco días.
- Durante la dispensación, asegúrese de sujetar las botellas de PALFIQUE UNIVERSAL BOND A y B en posición vertical. No sujete la botella diagonal u horizontalmente durante la dispensación; esto podría hacer que el acondicionador retroceda hacia la boquilla y se contamine.

■ALMACENAMIENTO

- Almacene los productos en un lugar refrigerado a una temperatura que oscile entre 0 y 10 °C (de 32 a 50°F).
- Evite la exposición directa al sol y mantenga los productos alejados de una fuente de calor, chispas o llamas.
- NO use los productos después de la fecha de caducidad indicada en jeringa/botella/ paquete.

■ELIMINACIÓN

- Extraiga la pasta sin usar de la jeringa de automezcla, mézclela y deje que se endurezca antes de eliminar PASTE.
- Los restos de PALFIQUE UNIVERSAL BOND no usados deben ser absorbidos por medio de un material absorbente inerte, como una gasa o algodón, y eliminados de acuerdo con las normativas locales.

■PROCEDIMIENTO CLÍNICO

1. Preparación del diente

Retire de la superficie del diente con un cepillo y pasta de piedra pómez o con limpiema ultrasónica, contaminantes tales como placa, residuos de cemento temporal, aceite de materiales empleados para la prueba de restauraciones, restos procedentes de las piezas de mano, saliva, sangre, fluidos de exudación, o limpie la superficie del diente con alcohol.

Enjuague bien y seque la superficie.

- Si la superficie adherente incluye esmalte sin tallar, aplique agente de grabado al esmalte sin tallar. Consulte la sección "Técnica de grabado selectivo del esmalte".
- NO seque la parte vital del diente. Su desecación podría provocar sensibilidad postoperatoria.

2. Grabado de la estructura del diente (opcional)

La aplicación del ácido permite obtener adhesiones clínicamente adecuadas. El grabado selectivo del esmalte o el uso del "procedimiento de grabado total" permiten lograr valores adhesivos más elevados.

(a) Técnica de grabado selectivo del esmalte

Aplique gel de ácido fosfórico solo al esmalte que rodea el margen de la caries preparada y deje que el gel actúe durante 10-15 segundos. Enjuague minuciosamente la superficie grabada (al menos durante 15 segundos) con agua, y luego seque con aire suave.

(b) Técnica de grabado total

Aplique gel de ácido fosfórico primero al esmalte preparado y luego a la dentina. El agente de grabado se debe dejar reaccionar con el esmalte y la dentina durante 10-15 segundos. Enjuague minuciosamente (al menos durante 15 segundos) con agua, y seque con aire suave o con pellets de algodón; no seque en exceso.

- Si la pasta se aplica directamente en la caries, coloque el muñón o el poste en la caries antes de que transcurran 30 segundos después de la aplicación del cemento PASTE.
- NO use espirales Lentulo para insertar el cemento en el conducto radicular, ya que esto puede acelerar excesivamente la polimerización.

3. Preparación para la restauración

Siga el procedimiento que se explica a continuación, de acuerdo con el material que vaya a restaurar.

1) Compósito y materiales compuestos

- Pulir el interior de la restauración mediante chorro

