

Instructions for Use (IFU) - LuxRelease

Product Name

LuxRelease

Specifications

10 mL/bottle

Product Description

LuxRelease is a high-performance, biocompatible aqueous separating agent. It creates an ultra-thin physical barrier on the surface of 3D-printed attachment templates, ensuring that templates can be easily removed after light-curing orthodontic attachments without compromising the bond strength between the attachment and the tooth enamel or the precision of the attachment shape.

Contraindication

LuxRelease is contraindicated for use in patients with a known hypersensitivity or allergy to synthetic polymers or water-soluble resin-based compounds. Additionally, this agent must not be applied directly to active oral lesions, including open wounds, inflamed mucosa, or any areas exhibiting pathological conditions.

Intended patient population

Children, adolescents and adults

Intended Users

Trained dental professionals

Intended Use

Specifically designed to prevent unintended bonding between attachment resins and 3D-printed attachment templates.

Composition

- Synthetic polymers
- Additives

Direction for Use

For optimal results, please follow these steps:

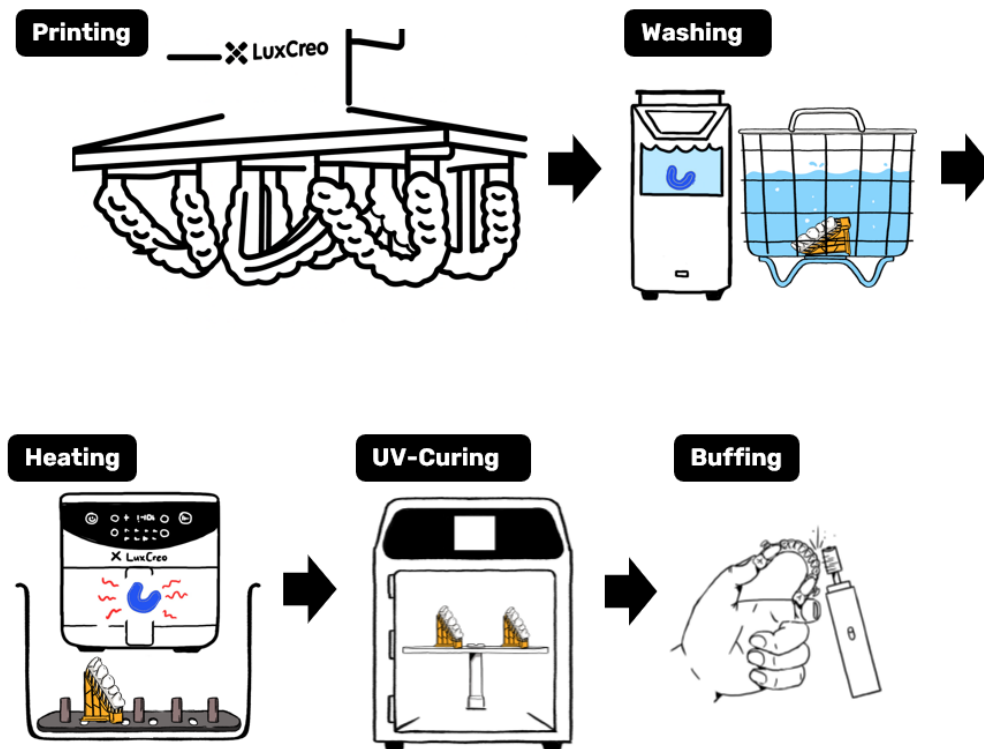
Step 1: Template Design

Design an attachment template with parameters:

Thickness	0.6mm for DCA / 0.5~0.6mm for DCA Pro
Gap	0.075mm or Tight Fit
Trimline	Based on your preference. Scalloping is recommended.

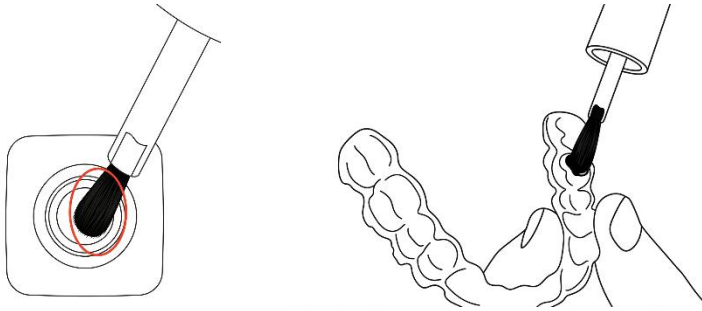
Step 2: Template Print and Post-Processing

Print the attachment template following the aligner standard procedure, including printing, washing, heating, UV-Curing and Buffing.



Step 3: Apply LuxRelease -- One Dip, One Tooth

1. **Dip** the brush with LuxRelease once and remove excess solution on the bottle rim.
2. **Apply** the LuxRelease onto the **entire inner** surface of the tooth with attachment.
3. **Coat** the interior of the attachment wells within the template thoroughly. Ensure the surrounding margins are well-covered to facilitate a smooth release.



Step 4: Thermal Drying

1. Place the tray in LuxOven Pro (P1 program: 130°C, 10 min) or LuxOven (90°C, 10min) to evaporate the water and form a solid release layer.
2. Let the tray cool down for 1-2 min after thermal drying before handling.

Warning: Prevent any water contact post-curing, as moisture will cause bonding failure.

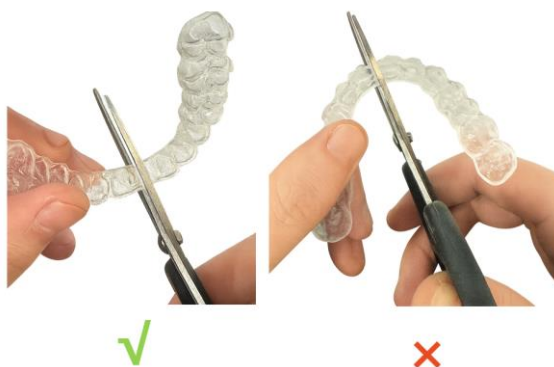


Step 5: Attachment Resin Loading & Bonding

1. **Attachment Bonding:** Proceed with attachment placement according to the standard operating procedures (SOP) of your chosen resin.

Warning: Keep the template completely dry during operation. Do not rinse or wash it, as any water contact will result in bonding failure.

2. **Trimming:** The template may be trimmed with scissors based on clinical preference. To maintain structural integrity and ensure ease of removal, it is recommended to follow the cutting directions shown in the diagram.
3. **Shape Recovery:** If significant deformation occurs after trimming, use thermal drying to restore its original shape.
 - **LuxOven Pro:** P1 (130°C for 10 min)
 - **LuxOven:** 90°C for 10 min



FAQs

Q1: Any difference between printing attachment templates and aligners?

A1: They're almost the same! Follow the standard aligner workflow with a few "pro-tips" :

- **Design:** Set a thickness of 0.5mm (DCA Pro) or 0.6mm~0.7 mm (DCA) and select the "Tight Fit" setting.
- **Printing & Post-Processing:** No changes here—print them just like your regular aligners!
- **After buffing:** Simply brush on the LuxRelease and bake it.

The template is ready for use!

Q2: Can I rinse the template with water after applying LuxRelease?

A2: Absolutely No. Water will break the LuxRelease coating, causing bonding failure. If water contact occurs, the coating must be reapplied and re-baked

Q3: How much of the tooth should be covered with LuxRelease?

A3: Follow the "One Dip, One Tooth" SOP. Use one full dip to brush the **entire tooth** (including the occlusal/biting surface), not just the area where the attachment sits. This ensures that the resin does not accidentally bond to surrounding areas and remains easily removable.

Q4: What if the template deformed during operation?

A4: No Worry. This template has ActiveMemory™. If significant deformation occurs after trimming with scissors, use thermal drying to restore its original shape.

- LuxOven Pro: P1 (130°C for 10 min)
- LuxOven: 90°C for 10 min

Warnings

- Avoid direct skin and eye contact.
- Inhalation: Irritating to respiratory system. Prolonged or repeated exposure may cause headache, drowsiness, nausea, weakness (severity of effects depends on the extent of exposure).
- Ingestion: Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract. Handle with care. Do not swallow and avoid breathing dust/fume/gas/mist/vapors/spray.

Precautions

- Wear protective gloves, protective clothing, eye protection, face protection when handling LuxRelease. If LuxRelease contacts skin, wash thoroughly with soap and plenty of water. If dermatitis or other symptoms persist, seek medical assistance.
- If LuxRelease contacts eyes, immediately flush by plenty of water. After initial flushing, remove any contact lenses and continue flushing for 15 minutes. Have eyes examined and tested by medical personnel.
- The integrated applicator brush is intended **strictly** for contact with the 3D-printed template surface. To avoid any contamination, ensure the brush does not come into contact with the patient's oral cavity, saliva, fingers, countertops, or any other external environments.
- The solution must be used prior to the expiration date printed on the label.
- Use within **6 months** after opening the original package and ensure that the product is still within its shelf life.
- Provide proper ventilation while using indoors.
- Keep out of reach of children and animals.

Storage & Maintenance

- Store at 4°C - 25°C in a dry, dark place.
- Ensure the cap is tightly sealed immediately after use to prevent evaporation or contamination.
- Do not use the product after the expiration date.

Shelf Life

12 Months

Use within 6 months once it's opened

Manufacturer Information

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