



LUTING CEMENT

Universal Resin Cement

Instructions for Use



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Overview

Rodin® Universal Resin Cement is uniquely formulated for 3D ceramic resins, including traditional restorative materials such as lithium disilicate, zirconia, and dental alloys. The smart choice for cementation of fixed dental restorations with its unmatched versatility, superior performance, and broad compatibility.

Rodin® Universal Resin Cement is designed to enhance the esthetics of delivered restorations, providing multiple shades to effectively mask dark stump preparations and metal abutments. It's designed for ease of use, packaged in dual-barrel syringe with single-use auto-mix tips, and provides optional tips for precise application.

Rodin® Universal Resin Cement is a versatile solution for a wide range of indirect restorative materials for modern dental practices.

Indications for Use

Rodin® Universal Resin Cement is the go-to solution for a wide spectrum of dental procedures. Its indications cover a comprehensive range of applications, including:

- Inlays/Onlays
- Crowns
- Bridges
- Post and Core build-ups
- Veneers
- Cementation of crowns to implants

Contraindications

None known.

Warning

- Refrain from employing this product on patients with established methacrylate allergies.
- Exercise caution when applying the product directly to pulp tissue, as it may potentially harm the pulp.
- To prevent irritation reactions, avoid contact with the skin, eyes, and soft tissue, as uncured methacrylate can be an irritant. In case of contact, thoroughly wash with water and seek medical attention if it comes into contact with the eyes. Refrain from ingestion.

Precautions

- Exclusively intended for use by qualified dental professionals on the general patient population.
- When using and handling this product, ensure the use of personal protective equipment.
- Mandatory protective eyewear for both patients and medical staff during light curing.
- Employ a rubber dam to isolate the treated tooth and prevent fluid contamination during material placement.
- Do not apply phosphoric acid or hydrofluoric acid (HF) to zirconia-based or metal-based restorations, as it may adversely affect adhesion.
- Avoid using hydrogen peroxide (H₂O₂) on the preparation, as its residues can negatively impact the material's setting reaction and adhesion.
- Refrain from using provisional cements containing eugenol, as they can inhibit the polymerization of Rodin Universal Resin Cement.
- Utilize the product within 6 months of opening the pouch, ensuring it is within the expiration date printed on the syringe label.
- Automix and intraoral tips are designated for single-patient use only to prevent cross-contamination.
- Bleed the syringe before the first use.
- The work time is dependent on the material at 23°C, and the cleanup time is based on the material at 37°C. These times may vary depending on storage conditions, temperature, humidity, and the age of the product.
- Shield the dispensed cement from ambient light, as it may initiate polymerization.
- Allow the cement to fully cure before any finishing, polishing, or occlusion adjustment to avoid potential debonding.
- Keep the used mixing tip on the syringe as a cap until the next application.

Adverse Events

In the event of a significant incident involving this medical device, please promptly notify the manufacturer and the relevant regulatory authority in the user's or patient's location.

Step-By-Step Instructions

Restorations Fit Evaluation, Try-in & Restoration Surface Preparation

1. Remove Temporary Restoration

- Remove the temporary restoration.
- Clean the tooth thoroughly using fluoride-free prophyl paste.
- Rinse with water and gently dry the tooth using compressed air.

2. Evaluate Restoration Fit

- Check the fit of the restoration and make necessary adjustments.

3. Shade evaluation

- Apply a thin layer of the selected water-soluble Rodin try-in gel to the restoration. The try-in gel matches dual-syringe dual-cure cement.

4. Seat the restoration

- Using light pressure, seat the restoration and remove any excess Rodin try-in gel. Evaluate shade.

5. Clean the restoration

- Remove the restoration, wash out the try-in gel with a strong water spray, and clean any organic debris with alcohol, followed by ultrasonic cleaning in water. Optionally, clean ceramic or porcelain surfaces with phosphoric acid etchant, rinse thoroughly, and dry.

6. Prepare the Internal Surface of the Restoration

- Follow the manufacturer's instructions for surface preparation.

General Recommendations:

Ceramic, Porcelain, and Composite Restorations:

- Use sandblasting with 50µ alumina
- 15 psi (0.1 MPa) for composite restorations
- 30 psi (0.2 MPa) for porcelain/ceramic restorations
- Etch the intaglio surface with hydrofluoric acid for 1 minute or as directed by the manufacturer.

- Apply silane primer to the internal surfaces of the restoration(s) and gently thin it with air. Store the restorations in a light-protected box until the cementation process begins.

Tooth Preparation

1. Isolate the Tooth

- Use a rubber dam to prevent moisture contamination and maintain a clean working area.

2. Ensure a Clean Surface

- Ensure the tooth is free of any temporary cement, try-in gel, or debris.
- Rinse with water and gently dry with compressed air.

3. Phosphoric Acid Etching (Optional for Enhanced Bonding)

- For enhanced bonding on enamel, apply 38% phosphoric acid for 15 seconds, rinse, and air-dry.

4. Use of Adhesive (Optional)

Rodin Universal Resin Cement is self-etch and self-adhesive.

- If using Rodin Bond, refer to its Instructions for Use.

- Total-Etch Technique

- a. Clean preparations with pumice and a prophyl cup. Wash thoroughly with water spray and air dry.
- b. Apply Rodin EtchPro to enamel/dentin surfaces with an applicator tip for 15 seconds using a light brushing motion. Rinse thoroughly and air dry (do not desiccate).

- Bonding Technique

- a. Apply Rodin Bond adhesive to target preparation area using a micro applicator tip, brushing the area lightly for 15 seconds.
- b. Dry the adhesive with gentle air flow for 3-5 seconds to produce a thin, uniform coat.
- c. UV light cure for 30 seconds.

Cement Application for Indirect Restorations (Excluding Veneers)

1. Apply Cement to the Restoration

- Dispense cement onto the internal surface of the restoration or prepared tooth.
- Ensure full coverage and allow the cement to flow from the margins during seating.

2. Seat the Restoration

- Position the restoration onto the prepared tooth surface.
- Apply light pressure to ensure proper adaptation.

3. Tack Cure and Remove Excess Cement

- Apply a curing light to the margins of the restoration for 1-2 seconds to tack cure the cement, allowing it to reach a gel-like state.
- While maintaining light pressure on the restoration, promptly remove any excess cement with a scaler or explorer.

- Use dental floss to clean the interproximal areas, ensuring there is no residual cement between the teeth.

- Ensure all visible excess is cleaned before proceeding with final curing.

4. Cure the Cement

Light-Curing:

- Use a curing device to cure all surfaces (including margins) for 20 seconds per surface.

Self-Curing:

- Allow the restoration to remain undisturbed for at least 1 minute and 30 seconds.

5. Final Cleanup

- Inspect the margins and ensure all residual cement is cleaned using appropriate instruments.
- Check occlusion and make any necessary adjustments.

6. Polish the Restoration

- Polish the margins using your preferred polishing system for a high-luster finish.
- Use finishing strips for smooth proximal surfaces.

Cement Application for Veneers

1. Dispense cement directly onto the internal surface of the veneer.
2. Place the veneer on the tooth, allowing the cement to flow from all margins.
3. Spot cure the veneer on the facial surface for 10 seconds.
4. Remove excess cement and light cure all surfaces for a minimum of 30 seconds per surface.

Core Build-Up

Use of Rodin Universal Resin Cement as a core build-up material is not recommended when used with all feldspathic porcelain crowns.

1. Adhesive application on the tooth preparation is required. Rodin Bond, PacBond plus, or PacBond One can be used. This material is compatible with any methacrylate universal adhesive. If you choose to use an alternative adhesive, kindly consult the specific instructions for that universal adhesive.

2. Light cure the adhesive.

3. The core build-up can be bulk-built in a single increment.

4. Allow Rodin Universal Resin Cement to self-cure for a minimum of 6 minutes until it achieves a firm set.

5. Light cure the core.

Note: The material's minimum working time is 1.5 minutes at 22-23°C (72-73 °F), and the setting time is <4 minutes at 37°C (99 °F). These times may vary based on storage conditions, temperature, humidity, and age of product.

Caution

- Uncured methacrylate resin may cause contact dermatitis and can damage the pulp.
- Avoid contact with skin, eyes, and soft tissue.
- In case of contact, wash thoroughly with water.
- For phosphoric acid gel and adhesives: avoid skin, eye, or tissue contact.
- If contact occurs, flush immediately with water. Seek medical attention if it contacts the eyes.
- Do not ingest these materials.

Storage Instructions

- Store the product at 2°C to 27°C (36°F to 80°F).
- Allow the product to reach room temperature (22°C/72°F) before use.
- Do not freeze.
- Refer to the outer packaging for the expiration date.

Warranty

Pac-Dent, Inc. will replace products proven to be defective. The company is not liable for any direct or indirect damages resulting from the use or inability to use the product. Users are responsible for determining the product's suitability for their intended use and assume all associated risks and liabilities.



Learn More at
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