

INSTRUCTION FOR USE

Radiant Ultra

(Light Curing Nano Hybrid Zirconia Universal Composite)

Radiant Ultra is a light-cured, radiopaque, high-strength nano-hybrid composite designed for anterior and posterior restorations. It offers a 3 mm depth of cure for efficient placement in deeper cavities. The material has a packable, waxy, and non-sticky consistency for improved handling and adaptation. It is available in a wide range of dentin, body, enamel, and translucent shades for optimal esthetic results.

COMPOSITION

TEGDMA, Bis-GMA, UDMA, PEGDMA, Bis-EMA, Modified silica fillers (5–20 nm), Zirconia fillers (5–15 nm), Barium glass fillers (0.15–0.5 µm)

INDICATIONS

- Direct anterior and posterior restorations, including occlusal surfaces
- Core build-up procedures
- Splinting of mobile teeth
- Correction and repair of existing composite restorations
- Fabrication of indirect restorations such as inlays, onlays, and veneers

INSTRUCTIONS FOR USE

Storage and Conditioning

- If stored at low temperature, allow the material to reach room temperature for approximately 10 minutes before use.

Tooth Preparation and Cleaning

- Clean the tooth surface with a non-fluoride prophylaxis paste prior to restoration.

Shade Selection

- Clean and lightly moisten the tooth surface before shade selection
- Select shade under natural or standardized artificial light using a VITA shade guide
- Consider that shade appearance varies with restoration thickness
- For verification, a small cured sample may be placed on the tooth surface and light-cured to confirm shade match before final restoration

Note: If accidental contact occurs with oral mucosa, eyes, or skin, rinse immediately with plenty of water.

Isolation

- Ensure proper isolation using rubber dam, cotton rolls, and saliva ejectors to prevent contamination and ensure optimal adhesion.

Cavity Preparation

- Prepare the cavity following adhesive dentistry principles. Round all internal angles and avoid sharp edges.
- For deep cavities, apply calcium hydroxide liner in pulp proximity areas and cover with a glass ionomer base.

Important: Do not use eugenol-containing materials as they may interfere with polymerization of the composite.

Adhesive Application

- Apply a Preva Bond 7 or any compatible 7th generation bonding

agent in 2–3 coats with gentle rubbing for approximately 15 seconds

- Air-dry gently for 5–10 seconds to evaporate solvents
- Light cure using 400–500 nm wavelength light for 20 seconds (or as per adhesive manufacturer instructions)

Composite Placement and Curing

- Apply Radiant Ultra in increments not exceeding recommended curing depth
- Cure each layer separately to minimize polymerization shrinkage
- Ensure light guide tip is placed close to the material surface during curing
- Verify light curing unit intensity regularly using a suitable radiometer

Note: Protect material from ambient light exposure to avoid premature polymerization. Close syringe immediately after dispensing.

Finishing and Polishing

After final curing:

- Adjust occlusion using articulating paper
- Remove excess material using fine diamond burs or carbide finishing instruments
- Polish using discs, silicone polishers, and polishing pastes for final gloss and smoothness

WARNINGS AND PRECAUTIONS

- Avoid prolonged or repeated contact with skin and eyes
- May cause skin irritation, sensitization, or allergic reactions in susceptible individuals
- Avoid inhalation of uncured material
- Do not ingest the material
- In case of skin contact, immediately remove material with cotton and alcohol, then wash thoroughly with soap and water
- If skin irritation, rash, or allergic reaction occurs, discontinue use and seek medical advice
- In case of eye contact, rinse immediately with plenty of water and seek medical attention
- Do not use in patients with known hypersensitivity to methacrylate resins
- Store syringes away from direct sunlight and heat sources

CONTRAINDICATIONS

Radiant Ultra should not be used in:

- Patients with known hypersensitivity or severe allergic reactions to methacrylate-based resins or any component of the product

PRESENTATION

Ref. No.: PL-0477- Radiant Ultra-1 × 4 g Syringe

AVAILABLE SHADES

Dentin: A1D, A2D, A3D

Body: A1B, A2B, A3B, A3.5B, A4B, B1B, B2B, B3B, C1B, C2B, C3B, EW

Enamel: E1, E2, E3

Translucent: CLEAR, GRAY

STORAGE CONDITIONS

- Store in a dry place protected from light
- Store at temperatures between 10°C (50°F) and 25°C (77°F)
- Keep away from moisture and direct sunlight
- Close syringe tightly after use

- Shelf life is not affected after opening if stored properly in a cool, dry place

SHELF LIFE

3 years from the date of manufacture

DISPOSAL

Dispose of product contents and packaging according to local regulations and applicable country-specific requirements.

CONTACT














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Failure to comply with the specified storage conditions may alter the working characteristics of the material and reduce its shelf life.

The manufacturer is not responsible for any loss of quality resulting from non-compliance with the specified conditions for transportation, storage, and use of this product. The user assumes full responsibility for using the material for any purposes other than those specified by the manufacturer.

This material is intended solely for professional dental use. Application must be carried out strictly according to the instructions for use. The manufacturer accepts no liability for damages resulting from failure to follow the provided instructions or for use beyond the stipulated applications. The user is responsible for assessing the material's suitability for any purpose not explicitly stated in this instruction sheet. The descriptions and data provided do not constitute a warranty of attributes and are not legally binding.

This product is specially formulated for use in dentistry and to be used by qualified dental personnel

-  Symbol for "CAUTION"  Symbol for "CATALOGUE NUMBER"
-  Symbol for "KEEP AWAY FROM SUNLIGHT"
-  Symbol for "KEEP OUT OF THE REACH OF CHILDREN"
-  Symbol for "DO NOT USE IF PACKAGE IS DAMAGED"
-  Symbol for "KEEP DRY"  Symbol for "MEDICAL DEVICE"
-  Symbol for "CONSULT INSTRUCTION FOR USE"
-  Symbol for "MANUFACTURER NAME & ADDRESS"
-  Symbol for "TEMPERATURE LIMITATION"  Symbol for "USE BY"
-  Symbol for "NON STERILE"
-  Symbol for "BATCH CODE"

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