

## INSTRUCTION FOR USE

### Radiant Plus

#### (Light Curing Nano Hybrid Universal Composite)

Radiant Plus is a light-cured, radiopaque, high-strength nano-hybrid universal composite designed for anterior and posterior restorations. It provides up to 5 mm depth of cure, allowing fast and efficient placement when restoring deeper cavities. The material features a packable, waxy, non-sticky consistency for improved handling and adaptation. It is available in a wide variety of dentin, body, enamel, and translucent shades for enhanced esthetic results.

#### COMPOSITION

TEGDMA, Bis-GMA, Modified aluminosilicate glass fillers (0.02–2.0 µm), Barium glass fillers, Nano-sized silicon oxide particles(0.20–0.50 µm)

#### INDICATIONS

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

#### CONTRAINDICATIONS

Radiant Plus should not be used in:

- Patients with known hypersensitivity or severe allergic reactions to methacrylate-based resins or any product component
- If allergic reactions occur, discontinue use and seek medical advice.

#### INSTRUCTIONS FOR USE

##### Storage and Conditioning

- If stored at low temperatures, allow the material to reach room temperature for approximately 10 minutes before use.
- ##### Tooth Preparation and Shade Selection
- Clean dental tissues using a non-fluoride prophylaxis paste before restoration
  - Clean and slightly moisten the tooth surface prior to shade selection
  - Select the appropriate shade using a VITA shade guide under natural daylight or standardized artificial light
  - Shade appearance may vary depending on restoration thickness

##### Shade verification:

- A small amount of material may be placed temporarily on an untreated tooth surface and light cured to verify shade matching. Remove the sample after assessment and repeat if necessary.

*Note: In case of accidental contact with oral mucosa, eyes, or skin, rinse immediately with plenty of water.*

##### Isolation

- Use appropriate isolation techniques such as: Rubber dam, Cotton rolls, Saliva ejector
- Proper isolation is necessary to prevent contamination and ensure adequate adhesion.

##### Cavity Preparation

Prepare the cavity according to standard adhesive restorative principles:

- Round internal angles and avoid sharp corners
- In deep cavities, place calcium hydroxide material near pulp areas and cover with a glass ionomer base when necessary

#### Important:

Do not use eugenol-containing materials, as eugenol may interfere with composite polymerization.

#### Etching and Adhesive Application

##### Etching:

- Apply Preva Etch or any 37% phosphoric acid etching gel to enamel first
- After approximately 5–10 seconds, apply gel to dentin
- Leave for a total etching time of 15–20 seconds
- Rinse thoroughly with water and dry using oil-free compressed air
- If saliva contamination occurs after etching, repeat the etching procedure.

##### Adhesive application:

- Apply Preva Bond 5 or compatible 5th Generation Bonding Agent in 2–3 coats using gentle rubbing for approximately 15 seconds
- Gently air dry for 5–10 seconds to evaporate solvents
- Light cure using curing light with wavelength of 400–500 nm for 20 seconds or according to adhesive manufacturer instructions

#### Important:

Water and air used during treatment should be free from contaminants, oil, and moisture.

#### Composite Placement and Light Curing

- Apply Radiant Plus incrementally according to clinical requirements
- Cure each increment separately to minimize polymerization shrinkage
- Keep the curing light tip close to the material surface during curing
- Regularly verify curing light intensity using an appropriate radiometer

#### Note:

Close syringe cap immediately after dispensing. Avoid excessive exposure to ambient or operatory light as premature curing may occur

#### Finishing and Polishing

##### After final curing:

- Check occlusion using articulating paper
- Remove excess material with fine diamond or carbide finishing instruments
- Finish and polish using polishing discs, silicone polishers, and polishing paste

#### WARNINGS AND PRECAUTIONS

- Avoid prolonged or repeated contact with skin and eyes
- May cause skin irritation, allergic contact dermatitis, or hypersensitivity reactions in susceptible individuals
- Avoid inhalation of uncured material vapors or particles
- Do not ingest the material
- In case of skin contact, immediately remove material using cotton and alcohol, then wash thoroughly with soap and water
- If skin irritation, rash, or allergic reactions occur, discontinue use and seek medical advice
- In case of eye contact, rinse immediately with plenty of water and seek medical attention
- Do not use eugenol-containing materials as they may interfere with polymerization and hardening
- Store syringes away from direct sunlight and excessive heat

#### PRESENTATION

Ref. No.: PL-0377- Radiant Plus- 1 x 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 direct light
- Store at temperatures between 10°C (50°F) and 25°C (77°F)
- Protect from moisture
- Keep syringe tightly closed after use
- Shelf life is not affected after opening when stored properly in a cool and 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 "TEMPERATURE LIMITATION"  Symbol for "KEEP DRY"

 Symbol for "KEEP OUT OF THE REACH OF CHILDREN"

 Symbol for "DO NOT USE IF PACKAGE IS DAMAGE"


 Symbol for "KEEP AWAY FROM SUNLIGHT"  Symbol for "CAUTION"


 Symbol for "MANUFACTURER NAME & ADDRESS"


 Symbol for "CONSULT INSTRUCTION FOR USE"

 Symbol for "CATALOGUE NUMBER"

 Symbol for "USE BY"

 Symbol for "MEDICAL DEVICE"

 Symbol for "NON STERILE"

 Symbol for "BATCH CODE"

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