



RODIN[®]
3D Resin

A Pac-Dent Brand

Palette 2.0

N₂- FREE Naturalizing Kit



Instruction For Use

1. Product Description

Palette 2.0 is an advanced, light-curable staining and glazing system designed to enhance the esthetics of 3D-printed and conventional dental restorations and prosthetics. It enables dental professionals to precisely characterize and color-match adjacent teeth and gingiva tissues, delivering natural-looking results for both intraoral and extraoral applications. Rodin® Palette 2.0 supports precise color matching to natural dentition and gingiva tissues, delivering durable, high-shine finishes compatible with validated light-curing devices. Compatible with Rodin® resin substrates and conventional dental materials, Palette 2.0 is biocompatibility-tested per ISO standards and works seamlessly with leading dental curing devices, ensuring reliable performance and ease of integration into digital workflows.

2. Material Composition

Glaze N₂-Free contains:

- Monomer
- Oligomer
- Photo Initiator
- Photo Inhibitor

3. Intended User

The product is exclusively intended for use by:

- Trained professional dentists
- Trained professional prosthodontists
- Dental Lab Technicians

Sales are restricted to:

- Dental supply dealers
- Teaching institutions
- Government dental facilities

4. Intended Use

For intraoral or extraoral esthetic characterization enhancements of restorative and provisional dental materials.

5. Indications for use

- Characterization of Provisionals
- Characterization of direct and indirect composite restorations, acrylic denture bases, and artificial acrylic teeth
- Characterization of crown and bridge composite resin restorations or acrylic resins.



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6. Contraindications:

Methyl Methacrylate Allergy: Patients who have a known allergy to methyl methacrylate should not be prescribed products containing this compound. Methyl methacrylate is a common ingredient in dental resins and acrylics. Exposure to materials containing it can trigger allergic reactions in sensitized individuals. These reactions can range from mild (such as skin irritation or rash) to severe (such as anaphylaxis, which is a potentially life-threatening condition).

7. PPE Recommendations

Recommended personal protective equipment includes:

- Gloves
- Eye protection
- Lab coat
- Closed-toed shoes

Precautions

1. Avoid vigorous shaking of the bottle, as it may introduce microbubbles, distorting the high-shine glaze appearance.
2. Do not leave Glaze N₂-Free bottle cap ajar in clinical or laboratory environments, as the resin is sensitive to dust and ambient light contamination, which may adversely affect curing performance.
3. The dispensing tip should be kept clean. Wipe dispensing tip with a lint free towel after each use.
4. Ensure the cap is securely closed after each use.

8. Directions for use

Surface Preparation for 3D Composite Ceramic Systems:

1. Remove all remaining support tips and perform final contouring, contact adjustments, and occlusal refinements.

Note: Avoid sandblasting or using unvalidated solvents that could remove the oxygen inhibition layer (OIL). Aluminum oxide media may embed into the surface, causing discoloration and compromising the chemical bond with Glaze N2-Free.

2. Remove residual debris using compressed air.

Note: Avoid steaming printed patterns before applying Glaze N2-Free, as residual moisture may result in an undesirable textured surface after curing.

Surface Preparation for Zirconia, Lithium Disilicate, and PMMA Materials:

3. Perform final contact, contouring, and/or occlusal adjustments as needed.
4. Sandblast all cameo surfaces with aluminum oxide to enhance mechanical retention.
5. Remove residual debris and sandblasting media using a dental steam gun.
6. Thoroughly dry the restoration with compressed air before applying Glaze N₂-Free,

Note: Do not subject Glaze N₂-Free, restorations to furnace firing cycles, as the glaze will burn off. Ensure zirconia and lithium disilicate restorations are sintered and final adjustments are made before glaze application and light curing.

Glaze N₂-Free Application

1. Apply a thin coat of Glaze N₂-Free to the cameo surfaces using a conventional Kolensky or synthetic porcelain brush.

Note: Thoroughly clean your brush with IPA after each use to prevent contamination.

2. Remove any excess glaze from the intaglio surfaces, embrasures, and occlusal grooves to ensure proper seating, function, and esthetics.
3. If desired, apply light-curable stains, and tack-cure them following the manufacturer's instructions.

Note: Reserve at least of the total curing time for uninterrupted curing of the Glaze N₂-Free to ensure adequate curing of the underlying substrate.

4. After completing all stain layering and tack-curing, apply a light second coat of Glaze N₂-Free to all cameo surfaces.
5. Tack-cure the first glaze layer for 30 seconds, recoat as needed, and perform the final cure with remaining time budget.

9. Glaze N₂-Free Intraoral Reapplication Touchups

1. Rinse target area and dry thoroughly with compressed air.
2. Roughen surface of target touchup area with a fine diamond bur.
3. Rinse target area to remove debris and thoroughly dry with compressed air.
4. Check occlusal clearance. Should have 0.1 mm of occlusal clearance to compensate for reapplied glaze layer. Reduce restoration as needed.
5. Apply a thin coat of Glaze N₂-Free to the adjusted areas.
6. Cure glaze with an intraoral spot curing lamp (see section 8 for details)
7. Buff with a goat hair polishing wheel or cotton buff wheel if desired.
8. Check occlusal clearance. Follow steps 3-6 if occlusion is high.

10. Validated Glaze N₂-Free Minimum Curing Parameters

| DEVICES | SETTINGS |
|--|--|
| NK-Optik Otoflash | 2,000 flash cycles (without nitrogen) |
| Ackuretta Curie+ Plus | 5 minutes, power level 9, duty cycle 20%, BL On |
| Formlabs Form Cure | 5 minutes, 40°C |
| LuxCreo iLuxCure Dental | P1-615, P2-20, P3-3 minutes |
| Nexa3D xCure | 405nm, 3 minutes, PWM 20% |
| Shining3D FabCure2 | 5 minutes, 40°C |
| Phrozen Wash and Cure | 7 minutes |
| Handheld Spot Curing Lamp with Radiation Power around 1200 mW/cm² | Curing Time: 10 seconds (3-4 cycles), take 1-2 second break between each cycle to avoid excess heat built up. Wavelength: 385-515nm, Distance: 0.5-inch. |
| Handheld Spot Curing Lamp with Radiation Power around 20000 mW/cm² | Curing Time: 3 seconds (4-5 cycles), take 1-2 second break between each cycle to avoid excess heat built up. Wavelength: 385-515nm, Distance: 0.5-inch. |

Disclaimer: distance mentioned in suggested for optimal results, other distances used may affect results.

Note: Ensure to follow minimum curing settings for underlying 3D printed substrates for best performance.

11. Chairside Adjustments

- Make necessary final contour, occlusal, or contact adjustments.
- Rinse and thoroughly dry adjusted area using compressed air.
- Remove restoration or prosthesis from patients' mouth and apply a thin coat of Glaze N₂-Free to adjusted area and cure with validated desktop curing devices. If the restoration is cemented in place, reapply a thin coat of Glaze N₂-Free
- Glaze N₂-Free to adjusted areas and cure with appropriate handheld curing unit following recommended curing protocol (see section 8).

12. Storage

Light Protection: Store Glaze N₂-Free in a dark place, away from direct sunlight and bright artificial light, to prevent inadvertent curing performance.

Dust-Free: Ensure the storage area is clean and free from dust. Dust particles can contaminate the resin, affecting curing performance.

Temperature Control: Store resins at a consistent, moderate temperature, away from extremes of heat or cold. Extreme temperatures can affect the viscosity and curing properties of the resin.

Shelf Life: 12 months when stored as directed.

13. Classification of Waste:

Regulatory Compliance: Familiarize yourself with and comply with all applicable federal, state, and local regulations concerning hazardous waste disposal.

Hazardous Waste Identification: Consult the US EPA guidelines and other relevant sources to accurately classify whether the waste you're disposing of is considered hazardous.

Disposal of Liquid Resin:

Curing Before Disposal: Never dispose of liquid resin directly into the trash or down the drain. Uncured resin should be fully cured before disposal.

Sunlight Curing: Pour the liquid resin into a clear container and expose it to direct sunlight. UV light will cure the resin. Alternatively, use a UV lamp if sunlight is not sufficient.

Solidification: Once the resin is fully cured and solidified, it can generally be disposed of as regular trash. However, always verify with local regulations, as there may be specific guidelines for cured resins.

Solid Resin Waste:

Glazed Objects: Ensure uncured resin is fully cured prior to disposal.

Containment: Place the cured resin waste in a sealed bag or container to prevent any potential exposure or reaction.

Maintain Records: Keep records of your waste disposal practices, especially for any waste that may be classified as hazardous. This can help demonstrate compliance with regulations.

Regular Review and Training:

Stay Informed: Regularly review disposal practices and stay informed of any changes in regulations.

Staff Training: Ensure all staff members are trained in proper disposal procedures to maintain a safe and compliant workplace.

By adhering to these disposal recommendations, dental practices and laboratories can minimize their environmental impact and ensure they are in full compliance with waste disposal regulations. Responsible disposal is an essential aspect of 3D printing operations in the dental industry.

Order Information:

64031 Glaze N₂-Free, 5mL

64015 Glaze N₂-Free, 15mL



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The User understands that deviation from the provided instructional guidance, or the use of invalidated or unauthorized equipment in conjunction with the Product, may result in alterations to the function and performance of the Product. The Company shall not be held responsible or liable for any such alterations or any consequences thereof.

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The User’s acceptance of the Product constitutes acceptance of these terms and an agreement to be bound hereby.



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