



Apex Teeth

Instructions for Use

Indications for Use

SprintRay Apex Teeth is a light-curable polymerizable resin intended to be used to fabricate artificial teeth for full and partial removable dentures. This material is an alternative to traditional denture teeth material.

Contraindications

SprintRay Apex Teeth is contraindicated when:

- a patient is known to be allergic to any of the ingredients
- there is direct intraoral contact with resin that is not fully cured
- it is used for any purpose other than its indications for use

Device Description

SprintRay Apex Teeth is an alternative to traditional materials used to fabricate denture teeth. The product is offered in various shades: Bleach, A1, A2, and B1. It is intended exclusively for professional dental work.

Printing and Hardware Parameters

These device specifications have been validated using the following manufacturing products. Any products or processes not specified in this document are outside of the device specifications.

- a. CAD File: CAD file of treatment device in STL file format
 - i. Minimum thickness 0.5mm
- **b. Printer**: SprintRay Pro S, or Pro or Pro 2 3D printer
 - i. Pro or Pro S: 55 or 95 micron XY resolution
 - ii. Pro 2: 35 micron XY resolution
- c. Software: RayWare Desktop or RayWare Cloud
 - i. STL file import
 - ii. Manual/automatic orientation
- d. Printing Parameters
 - i. Intaglio surface facing away from build platform
 - ii. 0 degree angulation with build platform
 - iii. Select the desired layer thickness (RayWare will typically default to 100 microns)



iv. Default support structures

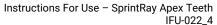


- e. Wash Device: Use SprintRay Pro Wash S or SprintRay Pro Wash/Dry
 - i. 91% or higher IPA
 - ii. Standard preprogrammed wash cycle
- f. Cure Device: SprintRay NanoCure or ProCure 2
 - i. Use SprintRay-recommended curing times that are built in the device

Warning and Precautions

SprintRay Apex Teeth is non-toxic in processed, cured form, and is classified as a biocompatible material. In uncured form, Apex Teeth is classified as a sensitizer. When washing with solvent or grinding the device, do so in a well-ventilated area with proper protective equipment. Wear protective gloves, clothing, eyewear, and face protection when handling.

- **Skin Contact:** May cause skin irritation. If unprocessed resin contacts skin, wash thoroughly with soap and water. May cause an allergic skin reaction. If skin sensitization occurs, stop using. If dermatitis or other symptoms persist, seek medical assistance.
- Inhalation: High vapor concentration may cause headache, irritation of eyes and/or respiratory system. If exposed to a high concentration of vapor or mist, move to fresh air. Use oxygen or artificial respiration as required.
- Eye Contact: Wash the contacted area thoroughly with soap and water.
- Ingestion: Contact your regional poison control center immediately.
- Use of Incompatible Components: Do not substitute any of the components of the
 device system, i.e., device photopolymer materials, bonding systems, scanners, 3D
 printers, post-curing units, CAD/CAM software, templates, and tools. Use only those
 specifically identified in this labeling. Unauthorized changes may result in a device that
 is outside of specification. Contact the manufacturer for compatible components.
- Maintain and calibrate equipment according to manufacturer instructions.





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 Minor Color Differences: Shade variance may occur due to inadequate shaking and mixing of the original packaging before use; inadequate stirring in the resin tank before use; and/or insufficient post-curing

Storage

- Material Reuse: The remaining resin in the resin tank can be reused. You may use a filter
 to ensure the resin is free from any cured particles to avoid print failures. The remaining
 material in the tank can be poured back into the resin bottle upon filtration. This process
 can be repeated until the material in the bottle is fully consumed. Please note that in the
 case of reuse, the resin must be filtered and poured back into the same bottle.
- Store Apex Teeth at 15-25°C (60-77°F) and avoid direct sunlight.
- Keep the bottle closed and/or the tank lid securely attached when not in use.
- Do not use Apex Teeth after the expiration date printed on the bottle.
- Resin must be protected from exposure to light, as spontaneous polymerization is possible. The bottle must be tightly closed after every usage.



Do not use expired resin as biocompatibility, performance, and print stability may be compromised.

Fabrication of Device

This resin was validated using the following workflow. Failure to follow the recommended practices may lead to undesired safety and performance implications.

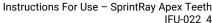
Any deviation from these instructions for use may negatively affect the physical and/or chemical qualities of the resin and the biocompatibility of the end product.

Designing

The device is designed in STL file format by a dental design service, preferably SprintRay Cloud Design, or dental CAD software using digital anatomical data from the patient. This STL file is delivered to the clinician for fabrication.

3D Printing

Sign in to RayWare Cloud and select the appliance type; the algorithm will automatically orient and add supports. Select this material and use the desired layer thickness. Queue the job to your printer.







Shake the resin bottle thoroughly for one minute, then pour into the resin tank up to at least the min fill line. From the printer touchscreen, navigate to the printer queue. Start the print job.

Part and Support Removal

After your device has been printed, remove it from the print platform using the provided Print Removal Tool. Remove all supports using a flush cutter or round diamond disc. Cut as close as possible to the device to minimize the smoothening and finishing procedure.

Washing and Drying

Use ≥91% IPA to wash the device using one of the following methods:

- SprintRay ProWash S
- SprintRay Pro Wash/Dry

To ensure the proper function of the wash unit, always follow on-screen instructions for device cleanliness and maintenance. Dry the part completely before post-curing.

Denture Assembly

Use denture base resin to adhere the teeth to the base. To obtain the optimal bonding of artificial teeth to the dental object, it may be necessary to roughen the surface of the denture/teeth sockets before assembly.

- Place a drop of the denture base resin into each tooth socket
- Place the teeth in the sockets
- Press the teeth and base firmly together
- Use a curing light to tack cure the pieces together

Post Curing

Use one of the following post-curing equipment and processes. For both SprintRay devices, use the recommended settings

- NanoCure (preprogrammed material profile)
- ProCure 2 (preprogrammed material profile)

Polishing

Use a Scotch-BriteTM/FuzziesTM wheel to smoothen the denture, then pumice and polishing compound and muslin wheel to polish the surface. You may use a pink compound bar and cotton buff to achieve a mirror finish.

Clean & Disinfect

Use a laboratory steamer to clean the denture of all debris and polishing compounds. Use soap and a brush with warm water.





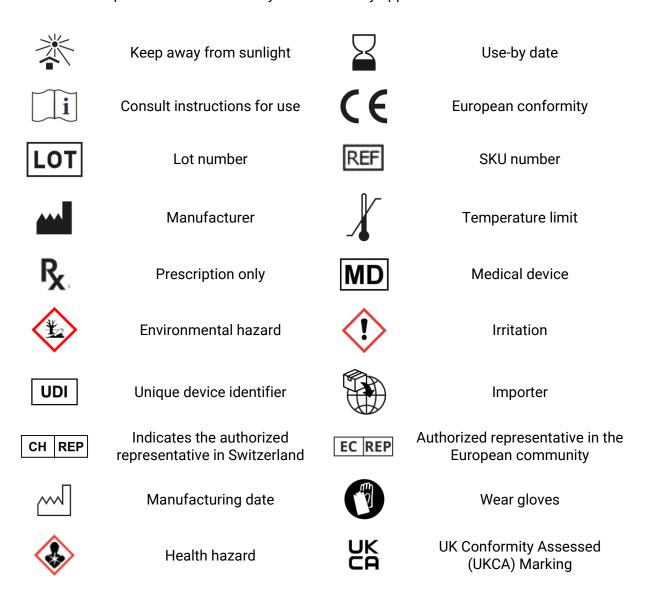
Disposal Considerations

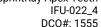
SprintRay

Always follow federal, state, and local regulations for hazardous waste disposal. To ensure proper classification, consult your local regulations. US guidelines can be found in 40 CFR part 261.3. Liquid resin must be cured completely before regular disposal. Simply pour it into a clear container and expose it to direct sunlight until hardened or in one of the post cure boxes. SprintRay Apex Teeth is not an environmental hazard in its final, fully cured state. Once cured, it can be thrown away with regular trash.

Symbol Guide

The below table provides reference for symbols that may appear on the resin bottle label.









UK responsible person

Contact Information

For product assistance, please review help information at: https://sprintray.com/digital-dentistry/

To report product issues, please contact SprintRay at: https://support.sprintray.com/hc/en-us/requests/new

Phone: 1-800-914-8004





Manufacturer Information

SprintRay Inc. 2710 Media Center Dr., #100A Los Angeles, CA 90065, USA