Prevest Denture

PREVESTDenPro®
THE FUTURE OF DENTISTRY

3D Printing Resin for Denture Base

Product Description : Prevest Denture resin is a light-curing material for the 3D printing of denture bases for use in LCD and DLP 3D printers as reactive to wavelength of light between 385nm and 405nm.

Composition : Methacrylate, Photo-initiators and Pigments.

Intended Purpose / Intended Use : Prevest Denture resin is intended for the manufacturing of 3D printed denture bases to form removable dentures for edentulous patients.

Indications for Use : It is indicated for the fabrication of removable full and partial dentures and base plates.

Indications for Hygiene : The denture bases produced with Prevest Denture resin are mostly customized and intended for a single-patient. The cleaning of multi-use appliances between usages is must. The cleaning of the appliance with soap and warm water, or any over-the-counter, mild cleaning agents is also must.

Instructions for Use :

Processing

Make sure to work as clean as possible, dirty reservoirs or equipment can cause deformation and therefore failure of the printed objects.

Shake for 5 minutes before use

Shake the bottle for at least 5 minutes prior to the mixing process on the roller mixer. This is required to loosen the (possible) sediment from the bottom of the bottle.

Thoroughly mix before using

1. For first time use before opening the bottle, mix the product for 2.0 hours on the roller mixer to disperse the resin & the pigments adequately.

2. Before each subsequent use, mix the product for 1.0 hour on roller mixer to avoid color development & print failures which may occur when mixed insufficiently.

Fill printer resin tray

Make sure the temperature of the resin is between (20-25°C/68-77°F) and prevent exposure to (sun) light. Pour the resin in the resin tray of the 3D printer. Do not mix different batches of the same product.

Printer settings

Only use the calibrated and/or predetermined settings for your LCD and DLP 3D printer and Post Wash-Cure system as mentioned in Prevest website. The resin can only be used with a 385nm – 405nm UV light source.

Remove printed parts from platform

When the 3D printer has finished its program, remove the building platform from the machine. Place the platform on plastic sheet. The printed parts can now be removed from the platform using a metal scrapper.

Cleaning printed parts - Step 1

Dip the printed parts in an ethanol/Isopropyl alcohol and wash it using Post wash-cure system for at least 15 minutes. Remove the cleaned parts and again clean in ethanol/Isopropyl alcohol using an ultrasonic bath for not more than 4-5 minutes as beyond this defect in printed parts may appears.

Finishing

After cleaning and drying, let the printed parts rest for at least 10 minutes to make sure that the printed parts are free of ethanol/isopropyl alcohol residue. Remove any support structures from the printed parts using plastic spatula.

Post-Curing

Place the printed parts in a Post wash-cure system for final polymerization. Post-curing is an UV-light treatment to ensure that printed parts obtain optimal polymer conversion. Through this the residual monomer is reduced to a minimum and the required mechanical properties are obtained. This procedure is necessary to achieve the desired material properties using the Post wash-cure system. To obtain stable cured parts use the prescribed curing time of 45-60 minutes and if possible, further gives cured parts an additional exposure of temperature min. 60°C / 140 °F for 15 minutes.

The dispensed material shall not be placed back in the container and the dose once applied or used shall not be reused

Warnings :

The product contains polymerizable substances which may cause skin irritation. If contact with skin occurs, wash thoroughly with soap and water. If skin sensitization occurs, discontinue the use. Avoid inhalation or ingestion.

Precautions :

- Recommended for dental use only.
- Use of nitrile gloves is recommended until post-curing.
- Expired or unused resin should be completely cured or polymerized prior to disposal.

Contraindications : Prevest Denture resin should not be used for any other purpose than as a 3D print resin for the manufacturing of Prevest Denture bases. Any deviation from this instruction for use may have an adverse effect on the chemical and physical quality of Prevest Denture resin. In case of an allergic reaction, please contact a medical physician.

Storage Condition : Store the resin in original packaging, preferably in cool and dark place, store at temperature between 10°C(50°F) to 24°C(75°F) and away from high temperatures or direct sunlight.

Shelf Life : 3 years from the date of manufacturing.

Presentation :

Prevest Denture resin is available in pink Color.

Ref : 18018
250g Bottle

Ref : 18009
500g Bottle

Ref : 18010
1000g Bottle

Disposal Conditions : To be disposed off based on the prevailing rules of the country in which it is used.

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Revision :	01
Date :	16-11-2025

LOT Symbol for "BATCH CODE" Symbol for "USE-BY DATE" Symbol for "NON STERILE" Symbol for "KEEP DRY" Symbol for "CAUTION" Symbol for "CONSULT INSTRUCTION FOR USE"

REF Symbol for "CATALOGUE NUMBER" EC REP Symbol for "AUTHORIZED REPRESENTATIVE IN THE EUROPEAN COMMUNITY/EUROPEAN UNION" Symbol for "DO NOT USE IF PACKAGE IS DAMAGE" Symbol for "WARNING"

Symbol for "KEEP OUT OF THE REACH OF CHILDREN" Symbol for "MANUFACTURER" Symbol for "TEMPERATURE LIMIT" Symbol for "KEEP AWAY FROM SUNLIGHT" MD Symbol for "MEDICAL DEVICE" UDI Symbol for "UNIQUE DEVICE IDENTIFIER"

The material has been developed solely for professional dental use. Application should be carried out strictly according to the instruction for use. Liability cannot be accepted for damages resulting from failure to observe the instructions of the stipulated area of applications. The user is responsible for testing the material for its suitability and use for any purpose not explicitly stated in this instruction sheet. Description and data constitute no warranty of attributes and are not binding. For feedback, complaints and reporting of unexpected events contact customer care.