

INTENDED USE:

The PORTUX 3D MODEL and PORTUX 3D MODEL 2.0 resins are indicated for the printing of dental models used in dental procedures and restorations.

Both materials are designed for use in open-system 3D printers based on LCD/DLP stereolithography technology, compatible with wavelengths between 385 and 405 nm.

COMPOSITION:

The resin is a mixture of:

- Acrylic monomers.
- Photoinitiators.
- Additives.
- Dyes.

DESCRIPTION:

PORTUX 3D MODEL and PORTUX 3D MODEL 2.0 resins are low-viscosity 3D printing materials, specially formulated for the fabrication of dental models with high precision and definition, ensuring faithful reproduction of the digital design.

Models produced with these resins exhibit an optimal shade that allows for highly accurate identification of the patient's anatomical details, while also facilitating visualization during clinical and laboratory procedures.

Both resins are compatible with LCD/DLP stereolithography 3D printers, operating within a wavelength range of 385 to 405 nm.

INSTRUCTIONS FOR USE:

Mix the product for at least 20 minutes in a mechanical shaker or roller mixer before the first use. This ensures proper printer performance and consistent color reproduction.

To minimize bubble formation, agitate the product at least 1 hour prior to use.

Print with the resin following the handling and operating instructions of your printer.

Post-processing instructions:

-Clean the printed models in isopropyl alcohol or ethanol (>96%), preferably using an ultrasonic bath to facilitate cleaning. Immerse the prints in a container with alcohol for 5 minutes. Then, place them in another container with fresh alcohol for the same duration. It is recommended to gently apply compressed air between cleaning steps to remove excess resin from cavities or critical areas of the prints.

-Remove the structures from the alcohol bath and dry them, either by gently applying compressed air or in an oven at 40°C for 30 minutes.

IMPORTANT: Do not cure wet or damp parts, as this compromises the dimensional accuracy and final definition of the printed structure.

-After cleaning and drying, place the printed parts in the NextDent LC-3DPrintbox curing unit and cure as follows:

o Exposure time: 15 minutes.

o In case you are using a curing unit different from the one mentioned above, please consult PORTUX 3D resins technical support (New Stetic) for the appropriate exposure time.

WORKING IN CONJUNCTION WITH OTHER DEVICES:

Models printed with PORTUX 3D MODEL and PORTUX 3D MODEL 2.0 resins must first be designed using dental design software. It is essential that the design is accurate and appropriate, since the printing process does not alter these characteristics.

This material is compatible for use in combination with other acrylic resins for the fabrication of retainers, plates, restorations, or other dental devices.

To prevent chemical adhesion between the printed models and these materials, the use of separating agents is recommended, always following the specific instructions provided by each manufacturer.

RESIDUAL RISKS:

-Printed models may exhibit dimensional discrepancies compared to the patient's actual anatomy; therefore, it is essential to perform proper design in the CAD software and ensure correct resin parameterization in the printing equipment.

-During handling, extreme conditions may induce fractures that render the model unusable. However, the resin provides sufficient mechanical strength to withstand the normal stresses of manipulation.

-Improper storage of the resin may alter its polymerization properties and compromise the product. To prevent this, the resin must be stored correctly: protected from light and always returned to its original container after each use.

CONTRAINDICATIONS:

Does not apply.

WARNINGS:

This product must not be used for applications other than those specified in its intended use. Models printed with PORTUX 3D MODEL and PORTUX 3D MODEL 2.0 are not biocompatible, and therefore must not be placed or used in the oral cavity of patients.

PRECAUTIONS:

Does not apply.

STORAGE:

The product should always be kept within its original packaging, at room temperature (< 30 oC / 86 oF) avoiding the following conditions:

- Direct exposure to sunlight or other types of radiation.
- High heat or humidity sources.
- Dust or any other type of contaminant.

FINAL DISPOSAL:

Do not dispose this product in water sources or sewage systems. This product should not be discarded in soil or subsoil. Disposal should be carried out through an authorized waste management company, in accordance with national and local regulations.

SHELF LIFE:

PORTUX 3D Model: 3 years.

PORTUX 3D Model 2.0: 3 years.

	Consult instructions for use
	Maximum storage temperature
	Caution: Consult the accompanying documents. See the instructions for additional warnings or suggestions for proper use of the device.
	Keep away from sunlight
	Wear gloves
	Caution: The product may cause respiratory irritation, drowsiness, allergic skin reactions, and eye irritation
	Caution: Hazardous to the environment
	Keep in a dry place
	Eye protection

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