

INTENDED USE:

The PORTUX 3D CAST resin is indicated for the fabrication of structures intended for burnout processes and subsequent metal casting or ceramic injection.

The product is compatible with open-system 3D printers based on LCD/DLP stereolithography technology, operating within a wavelength range of 385 to 405 nm.

Its use is restricted to dental professionals and technicians trained in the handling of 3D printing resins.

COMPOSITION:

The resin is a mixture of:

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

DESCRIPTION:

PORTUX 3D CAST is a low-viscosity 3D printing resin, specially formulated for the fabrication of structures with high precision and definition, ensuring faithful reproduction of the digital design.

The printed structures exhibit a translucent red color and are designed to undergo burnout processes, enabling the production of final structures through metal casting or ceramic injection.

In addition, PORTUX 3D CAST is compatible with LCD and DLP stereolithography 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:

o 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.

o 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.

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

o 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:

The structures fabricated with PORTUX 3D CAST resin must be previously designed using CAD modeling software. Such design must be precise and accurate, since these properties are not altered during the printing process. Once printed, the structures can be subjected to any burnout curve with temperatures up to 900°C, resulting in a residual ash content of less than 0.2%.

RESIDUAL RISKS:

-Printed frameworks may have dimensional discrepancies with respect to the patient, therefore, it is necessary to carry out an appropriate design in the design software, in addition to carrying out an adequate parameterization of the resin in the printing equipment.

-Due to extreme conditions during the handling of the frameworks, fractures may be induced, which may make their use impossible. The resin has a mechanical resistance to withstand normal stresses during its handling.

-Inadequate storage of the resin may generate a change in the polymerization properties of the product, making its use impossible. This is avoided by storing the resin correctly, protected from light, and returning it to its original packaging after use.

CONTRAINDICATIONS:

Does not apply.

WARNINGS:

This product must not be used for any application other than the one specified in the intended use. Structures printed with PORTUX 3D CAST are not biocompatible and therefore must not be used in patients' oral cavities.

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:

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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