

INTENDED USE:

PORTUX 3D Basic resin offers high mechanical rigidity, low dimensional shrinkage, and accurate detail reproduction in printed structures. Its primary application is the fabrication of prototyping structures. Available colors are gray and ivory.

COMPOSITION:

The resin is a mixture of:

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

DESCRIPTION:

Low-odor, low-viscosity, and fast-printing photopolymerizable resin. PORTUX 3D Basic resin offers excellent rigidity, low shrinkage, and good detail reproduction in printed structures. Its main application is the production of prototypes with adequate precision. It is widely used in sectors such as engineering, industrial design, and dentistry.

PORTUX 3D Basic is compatible with LCD/DLP stereolithography 3D printers operating at wavelengths of 385 and 405 nm.

INSTRUCTIONS FOR USE:

- Clean the printed structures 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, immerse them in another container with fresh alcohol for the same duration. It is recommended to gently apply compressed air between cleanings to remove excess resin from cavities or critical areas of the print.
- 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 them as follows:

- o Exposure time: 15 minutes.

- o If a different curing chamber is used and requires a different exposure time, contact the PORTUX 3D resin technical support area at New Stetic.

Note: Exposing the printed structure to curing times longer than indicated may increase the brittleness of the material, promoting fractures.

WORKING IN CONJUNCTION WITH OTHER DEVICES:

The structures printed with PORTUX 3D BASIC resin must be designed beforehand in CAD software with the required precision, as the printing process does not modify or enhance the dimensions or details of the original design. This low-viscosity, low-odor photopolymerizable resin is specially formulated to produce rigid and detailed prototypes, offering excellent dimensional stability.

RESIDUAL RISKS:

-Printed structures may exhibit dimensional discrepancies compared to the original design; therefore, it is essential to perform precise design in the CAD software and properly adjust the resin parameters in the printing equipment.

-During handling under extreme conditions, printed parts may develop fractures that render them unusable. However, the resin has sufficient mechanical strength to withstand normal handling stresses.

-Improper storage of the resin can alter its polymerization properties, making it unusable. To prevent this, the resin should be stored protected from light and always returned to its original container after use.

CONTRAINDICATIONS:

Does not apply.

WARNINGS:

This product must not be used in applications other than those specified in its intended use. Structures

printed with PORTUX 3D BASIC resin are not biocompatible and therefore should not be used in applications that require any contact with patients.

PRECAUTIONS:

Does not apply.

STORAGE:

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