

Light-curing resin based on (meth)acrylate, for the generative fabrication of dental models for DLP printers with LED 405nm / UV-LED 385nm

1. Important notes

Only to be used by trained specialist personnel only.

SHERAprint-model plus / UV was developed for the application in dental laboratory and has to be used in accordance with the instructions for processing and safety. SHERA will not be responsible for damages caused by faulty or improper use of system and materials.

2. Indication

3D print working and presentation models for the entire spectrum of models in dentistry.

3. Processing

3.1 General Information

- the properties of the final product depend, among other things, on post-processing. Therefore it must be ensured that the light unit is in an orderly condition and that the models are completely cured (observe process description).
- processing temperature 23 °C ± 2 °C

3.2 Manufacturing process

Data preparation and fabrication of the support structure according to the instructions of the CAD software manufacturer.

- Construction process

Generation of a print job complying with machine and material parameters.

- Post-processing

If possible, post processing should commence immediately following the construction process. After raising the platform, a drip-off time of approx. 10 minutes is recommended.

- Pre-cleaning

Remove construction components from the platform and clean in a separate container with SHERAultra-p for max. 3 minutes in an ultrasonic bath.

- Cleaning

Then clean the openings, drill holes and gap areas thoroughly with a soft tooth brush and a bit of SHERAultra-p in order to remove material rests.

- Main cleaning process

The main cleaning process is performed in a separate container with fresh SHERAultra-p for max. 3 minutes in an ultrasonic bath. Before drying check the openings as well as the additional drill holes and, if necessary, remove the material rests with a soft tooth brush and a bit of SHERAultra-p.

The total cleaning time should not exceed 10 minutes.

- Drying

Heat the construction components for 30 minutes in a furnace to approx. 40 °C to remove the solvent residues from the cleaning process.

- Post-exposure

Post-exposure is performed with a xenon photo flash unit with 2 x 2000 flashes (for example SHERAflash-light plus) under inert gas conditions (nitrogen), rotate components in between. We do recommend letting the construction components cool down in between these two procedures.

4. Safety

- Please follow the instructions on the safety data sheet!
- Be sure to use personal protective equipment (protective gloves and protective glasses) during processing.
- Avoid direct contact with the liquid material and the components prior to post-curing. Irritating to eyes and skin (sensitisation is possible).
- After contact with eyes rinse thoroughly with water immediately and consult a doctor.
- After contact with skin wash immediately with water and soap.

5. Storage

- SHERAprint-model plus / UV is to be stored dry (at 15 °C – 28 °C) and protected from light. Minimal influence of light can already induce polymerization.
- Always keep container tightly sealed, immediately close the container carefully after each use.

Warranty

SHERA Werkstoff-Technologie GmbH & Co. KG is certified according to DIN EN ISO13485 and guarantees for the products, due to a thorough quality control system, a flawless quality of its products. Our instructions for use are based on the results of our test laboratory. The technical data given can only be guaranteed if the processing is carried out as mentioned. The user is self-responsible for processing of the products. We are not liable for faulty results as SHREA has no influence on the processing. Nevertheless possibly arising claims for damages relate to the value of the products only.