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SHERAprint-model 2.0

INSTRUCTIONS FOR USE

1. Indication

TPO-free, light-curing acrylate-based resin for the fabrication of individual 3D-printed dental models. It is suitable for the fabrication of die models for crowns, bridges, veneers and inlays, for model casting, splint and aligner models, for implant models and for situation-, wax-up and mock-up models. SHERAprint-model 2.0 can be used in all 3D printers with DLP process (with LED 405 nm or UV LED 385 nm) or LCD / MSLA process (with 405 nm).

2. Tips

The product has been developed for use in the dental sector and has to be applied according to the instructions for use. The manufacturer assumes no liability for damages resulting from other use. In addition, the user is obliged to independently check the suitability and usability of the material for the intended purposes prior to its use, especially if these are not listed in the instructions for use.

3. Saftey instructions

Inhalation

Avoid inhalation of vapours: ensure adequate ventilation.

PPE

Avoid touching the uncured material: wear protective gloves, clothing and goggles.

Skin contact

If the product comes into contact with the skin, wash with copious water and soap. Remove soiled clothing and wash before reuse. In case of skin irritation or rashes, seek medical advice.

Eye contact

After contact with the eye, rinse for several minutes under running water holding the eyelid open. If eye irritation continues, seek medical advice.

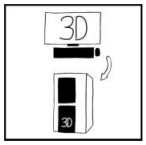
4. Processing instructions

Mixing:



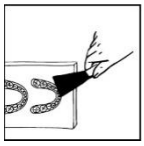
Shake the product in its original packaging for at least five minutes.
Stir the material in the material tray thoroughly with a spatula.

Construction process:



Data preparation and creation of the support structure using CAD software.
Creation of a print job in compliance with the machine and material parameters (see Annex 1, A)). Then start the construction process (instructions for use of the printer).

Removal from building platform:



Remove finished printed works and any polymerised residues from the building platform by using a spatula.

Post processing

Cleaning of 3D printed objects:

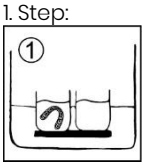
The printed objects can be cleaned in automated cleaning units or in an ultrasonic bath.

Automated cleaning unit:

A list of equipment approved for use with this material, together with guidance on selecting the appropriate parameters, can be found in Annex 1, B).
Check the cleaned components for any residues of cleaning fluid and/or printing material and blow them off thoroughly with compressed air.

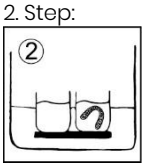
Cleaning alternative with ultrasound:

1. Step:



Clean pressure objects in a separate container with SHERAultra-p for a maximum of three minutes in an ultrasonic bath.
Carefully brush openings, holes and splitting areas with a soft toothbrush.

2. Step:



Clean pressure objects in a separate container with fresh SHERAultra-p for a maximum of three minutes in an ultrasonic bath (total time not more than 10 minutes!).
To dry, carefully blow off the components with compressed air.

Alternative:
SHERAultra-e can be used as an isopropanol-free alternative to conventional cleaners in the ultrasonic bath. When using SHERAultra-e, the printed object must be rinsed with clear water afterwards. Please follow the instructions for use of the cleaner.

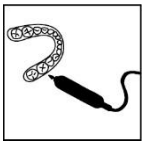
Post-exposure:

Curing of the cleaned printed objects in an automated light-curing unit. The units approved for this material depend on the 3D printer used and the previously selected print parameters (Annex 1, A). Refer to Annex 1, C for the selection of appropriate post-curing parameters.

Post-exposure alternative with xenon light-curing unit:

Post-exposure of the printed objects in the Otoflash G171 (NK-Optik) or an equivalent device, in accordance with the procedure specified in Annex 1

Finishing:



Post-processing according to conventional methods with dental tools.

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5. Storage and shelf life

Store the product dry and protected from light in the original packaging at room temperature (between 4°C and 28°C). Even small light effects can lead to polymerisation. Seal the packaging tightly after use. After the expiration date, the handling and product properties of the material can no longer be guaranteed. Shelf life: see imprint label.

6. Disposal and environmental protection

Unpolimerised material is harmful to the environment, avoid release into the environment.
SHERAprint-model 2.0 is environmentally friendly in its polymerised form. Residual liquid wastes must be disposed of at the waste collection points or disposed of in accordance with local regulations. Do not allow to enter sewerage/ surface water/ groundwater.

7. Warranty

SHERA Werkstoff-Technologie GmbH is certified according to EN ISO 13485 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

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