Instructions for Use ELEMENT Dentiprint 3D-Cast Resin Blue Light-curing resin

Dentify ***ELEMENT Dentiprint 3D-Cast Resin Blue*** is a light-curing resin for the generative production of burn-out objects for the casting process.

1. Description of the product

ELEMENT Dentiprint 3D-Cast Resin Blue Light-curing resin for generative production of dental models

Color: Blue

ELEMENT Dentiprint 3D-Cast Resin Blue **Art-No.: 381-1000** Content: 1Kg

2. Composition

Mixture of various methacrylate-based plastics with photoinitiators and stabilizers.

3. Indications

Casting objects in the dental and jewelry sector (can be burnt out without residue)

4. Contraindications

Avoid skin contact in the unpolymerized state.

5. Side effects

In individual cases, contact allergy with unpolymerized material may occur.

6. Interactions

None known

7. Hazard warnings

Observe safety data sheets! When processing methyl methacrylates, avoid direct skin and eye contact. (Use personal protective equipment: protective gloves / eye protection). Ensure sufficient ventilation during processing. Do not inhale vapors.

8. Processing

Dentiprint 3D-Cast Resin Blue is optimized for processing in LCD, DLP & SLA printing systems with a range between 385-420 nm.
Preparatory work
Before use, shake the closed container vigorously and store at room temperature.
Processing Instructions:
-Layer thickness 50 µm
-Prevent air inclusions when filling into the material trough
-recommended wall thickness with hollow material: 3 mm precision models lying down, position model stumps upright on the building platform.
-Antagonist models can be positioned vertically
-drip off time after printing approx. 10 min
-Printed objects are immediately reworked to avoid possible subsequent deformations
Postprocessing:

Carefully remove printed objects from the building platform. Remove support structures carefully and without force before post-exposure.
Cleaning:
In ultrasonic bath with isopropanol (purity min. 98%)
Pre-cleaning:
Pre-clean printed objects for 2 minutes in a reusable isopropanol ultrasonic bath.
Note:
The cleaning power of the bath decreases with increasing frequency. If the cleaning power decreases, the bath must be changed.
Main cleaning:
Afterwards, the printed objects must be cleaned for another 2 minutes in a fresh isopropanol-ultrasound bath. If there are still resin residues on the printed object after the main cleaning, the printed object must be cleaned again for max. 1 minute in the isopropanol ultrasonic bath.
If no more resin residues are visible on the printed object, the printed object must be carefully dried with compressed air.
Post-exposure:
The post-exposure is done in a light unit for post-exposures with appropriate intensity. An inert gas atmosphere is recommended. Care must be taken to ensure that the printed objects do not overlap or touch each other, otherwise complete post-polymerization is not possible. After the first exposure phase, wait for a cooling phase of at least 2 minutes with the lid open. Insufficient cooling may lead to deformation of the printed object. After the cooling phase, the printed objects must be turned over and further exposures must be made.
Exposure of printed objects:
After post-exposure, the printed objects can be processed using rotating instruments. Remove adhering material residues with isopropanol if necessary.

9. Shelf life

2 years

10. Special storage and handling instructions

Storage temperature 15°C -28°C

11. Dosage form and package size

Liquid 1.000 g

12. Disposal

Do not allow to enter sewers or watercourses. Do not allow to enter the subsoil/earth. Disposal according to official regulations. Contaminated packaging must be treated in the same way as the substance.