

# MAZIC<sup>®</sup>D SG

Light Cured 3D Printing Surgical Guide Materials



**VERICOM CO., LTD.**

**Dental Materials**  
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## Description

MAZIC<sup>®</sup>D SG is photopolymer resin for 3D printing dental surgical guide by DLP 3D printer.

## Composition

- Methacrylic oligomers
- Crosslinking agent (phosphine oxide)

## Indications

Fabrication of implant surgical guide via 3D printing.

## Contra-indications

Do not use this product in patients with a history or reaction of hypersensitivity to methacrylic monomers.

## Recommended Procedure

### – Processing

1. Before using MAZIC<sup>®</sup>D SG, make sure to mix the product in the original packaging for 5 minutes.
2. Pour the liquid material in the reservoir (VAT) of the 3D-printing machine and check float and foreign material in the liquid with the naked eye.
3. Print the dental implant guide according to printer manufacturer's instructions.
4. After the printing is finished, remove the building platform from the machine. Rinse the printed jobs by ethanol and ultrasonicate for five minutes in isopropyl alcohol to eliminate any excess material, using an ultrasonic bath. Sonication should not take longer than 5 minutes, as this may cause defects in the printed jobs.

### – Post-curing

1. After cleaning, printed jobs are dried to free of alcohol residual.
2. Place the printed jobs in a UV-light curing box (e.g. Vericom MAZIC<sup>®</sup>D Oven) for final polymerization. Time of curing depends strongly on type of lamps lightbox used. The final properties depend on the post curing process.

- ※Specific post-curing condition (Vericom MAZIC<sup>®</sup>D Oven)
  - Wavelength: UV LED
  - LED radiant flux 1100~1300mW (light power Level 5)
  - Curing time: 3+3 min  
(Turn guide upside down between operating machine)

3. Remove any support structures and finish jobs, using conventional dental methods and instruments.

### – Sterilization

1. Place the printed surgical guide in a standard sterilization pouch.
2. Apply sterilization by placing the pouch containing in the guide in an autoclave for 15 minutes at 121°C. Make sure no mechanical forces are applied to the printed guide during sterilization.
3. Let the printed guide cool down to room temperature before using. Make sure no mechanical forces are applied to the printed guide during cooling down.

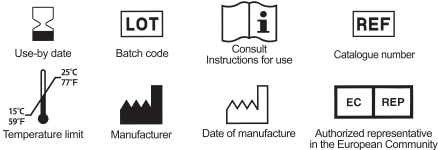
## Storage

1. Store MAZIC<sup>®</sup>D SG in a dark and dry condition at room temperature (15~25 °C).
2. Please close the cap tightly when not using MAZIC<sup>®</sup>D SG.

## Precaution

1. For dental use only.
2. Avoid inhalation of the vapor. High atmospheric concentrations may lead to irritations of respiratory tract, dizziness, headache and anesthetic effects.
3. May cause sensitization by skin contact. Irritating to skin, repeated and/or prolonged contact may cause dermatitis.
4. After contact with eyes, rinse thoroughly with water immediately.
5. Avoid oral ingestion. Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.
6. If allergic reactions or sensitization is occurred on skin or eyes, consult a medical physician.
7. Follow the instructions. If not, it can cause negative effect for chemical and physical quality of the product.
8. Before using MAZIC<sup>®</sup>D SG, make sure to mix the product in the original packaging for 5 minutes.
9. If it used as unsure mixed state, it can cause negative effect for the curing time, state and properties of printed surgical guide.
10. Be sure to use personal protective equipment (nitrile gloves and protective glasses) during processing. It can cause stimulus on the skin and eyes.
11. Do not design and modify the product without prescription of dentists.
12. Do not use after expiry date.
13. Work in clean workplace. Contaminated VAT and machine can affect the output.
14. Cured product is not poisonous for the environment. Residual waste should be gone to collection points as liquid state.
15. Use DLP 3D printer and UV-light curing box.

## Symbol



## Warranty

VERICOM Co., LTD. will replace product that is proven to be defective. VERICOM Co., LTD. does not accept liability for any damage or loss, direct or consequential, stemming from the use of or inability to use the product described. Before using, it is the responsibility of the user to determine the suitability of the product for its intended use. The user assumes all risk and liability in connection therewith.



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