

■ Product name

LumiCera

■ Model

CB200-A1 / CB200-A2 / CB200-B1 CB200-BL / CB200-C2

■ Specification and content

0.5 kg/bottle: 500 g

Nano: 6 / 10 / 35 g, Single-Unit, 3 pack

■ Intended use

LumiCera material is used for fabricating permanent single crowns, permanent inlays and onlays, veneers, bridges.

■ Product description / composition

LumiCera is composed of methacrylate polymer resin with photo initiator, and pigments.

■ Contraindication, warning

Do not use the product in case of a known allergy to one or more ingredients (such as acrylics).

■ Caution

1. Potential safety hazard: Disposal of liquid resin without treatment can cause environmental biohazard.
2. Skin contact: remove contaminants and rinse skin with soap. Wear proper personal protective equipment when handling resins and uncured printed parts.
3. Eye contact: flush with running water or normal saline for at least 15min, seek medical advice.
4. Inhalation: in case of large amount of inhalation, leave the scene to fresh air quickly.
5. Ingestion: drink enough water, induce vomiting, seek medical advice.
6. It is used for any purpose other than its intended use.
7. The device is for professional use only.
8. The operator should use the specified bonding agent.
9. Restrictions on use: This product is for one-time use and is limited to professionally trained operators. Please dispose of the solid waste produced in accordance with local laws and regulations.

■ Processing environment

The recommended operating temperature is between 20 °C and 30 °C, away from strong light source. The humidity should be controlled below 70%.

■ Device information

Resin may be operated using the following recommended devices validated by SHINING 3D.

Please notice that the post-curing unit and the 3D printer need operation and a routine maintenance following the manufacturer instructions.

Printing Parameters: material profiles authorized by SHINING 3D

Printing:			
Additive Printer (3D Printer)	Brand	Series	Software
	SHINING3D	AccuFab	SHINING 3D Dental
		Ceramix	Cloud / AccuWare
Post-curing:			
Post-curing Unit	Brand	Series	Software
	SHINING3D	FabCure	NA
		Ceramix	
Light	Wavelength	Post-curing irradiance output	Post-curing energy
UV-LED	365-405 nm	$\geq 40 \text{ mW/cm}^2$	36 J/cm^2

■ Processing instructions

1. Shake or sonication for 5 minutes before use

Shake or sonicate the bottle up and down for at least 5 minutes, so that the resin is fully mixed.

2. Prepare of 3D printing

For AccuFab

Before use ensure that the resin has been mixed evenly and no debris in the resin tank and printing platform. Pour the resin in the resin tank and at least cover the lowest scale of the tank. If the resin is stored in a closed resin tank, make sure to stir the resin before each subsequent use. Discard any print resin material remaining in the resin tank and clean out to replace with entirely new resin material if visible gelation and polymerization.

For Ceramix

Scan the UDI code by Ceramix. Put the Nano cartridge on the printing platform, lock the cartridge and hold firmly.

3. 3D printing

Send a print job to the printer and confirm it on the printer's touchscreen to start the print. Once completing the print, the printer beeps for 5 times.

4. Remove printed parts from platform

After the print job has been finished, remove the platform from the machine. Place the platform on some paper, cloth or tray. The printed parts can be removed from the platform using a clean tool.

5. Remove the supports

Use a cutter or a headpiece with a cutting disc to separate supports from printed parts. Cut as close as possible to the parts to minimize the smoothing and finishing procedure.

6. Clean printed parts

Use dust-free cloth or compressed air to dry the printed parts. Use micro brush wipe away any excess resin left on the surface.

7. Post-curing

After cleaning, place the printed parts in the post-curing unit for post-curing. Post-curing is an UV light treatment to ensure the printed parts obtain the required mechanical properties. This procedure is a

necessary step to produce a biocompatible end product. Detailed post-curing time can be found in the table of Device information.

8. Finishing and polishing

After post-curing, remove parts from post-curing unit. Use milling tools to remove the rest from the parts and polish the parts if necessary.

9. Disinfection

Soak the prints in 75% ethanol solution in water for 10 minutes for disinfection.

10. Bonding

The recommended cement for bonding the LumiCera CB200 is the RelyX™ U200 Automix by 3M.

Waste disposal

It is recommended to handle the unused resin and the cured material in accordance with local laws and regulations.

Storage and transportation

The recommended storage temperature is between 15°C and 28°C, and the humidity is below 70%. Close the package after each use. The recommended transportation temperature is between 0°C and 45°C, and the humidity is below 90%. Do not expose to sunlight and Uv-light.

Label identification

UDI		Unique Device Identifier	
Device Identifier (DI)		(01)	Device Identifier Number
Production Identifier (PI)		(11)	Production Date
		(17)	Expiration Date
		(10)	Lot Number

Warning	
	H315 Causes skin irritation
	H317 May cause an allergic skin reaction
	H318 Causes serious eye damage
	H411 Toxic to aquatic life with long lasting effects
	Keep upwards
	Fragile, handle with care
	Keep dry
	Recyclable materials
	Temperature limit



Protect from sunlight



Humidity



Limit of stacking layers



Manufacturer



Indicate the item is a medical device



Do not re-use



By prescription only. US Federal Law restricts this device to sale by or on the order of a licensed dentist or dental professional. This device serves as a prescription medical device and should be operated by qualified health-care providers only.

■ Product period

Product period: 2 Years

Production date: Marked on the container label and packaging



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