

Product Description : Prevest C&B-Ceramic Resin is a light-curing material for the 3D printing of dental prosthesis for use in LCD, DLP and SLA 3D printers as reactive to wavelength of light between 385nm and 405nm.

Composition : Methacrylates, Photo-initiator, Inhibitor and Pigment.

Intended Purpose / Intended Use : C&B-Ceramic Resin is intended for the correction or reconstruction of functionally compromised natural dentition by fabricating customised 3D printed dental prosthesis.

Indications for Use : It is used for the fabrication of 3D printing ceramic crowns, inlays, onlays and veneers.

Indications for Hygiene : Restorations made of C&B-Ceramic Resin should not be cleaned with chemical products. Cleaning with water is sufficient. The finished restorations can - if necessary - be disinfected with an ethanol/isopropyl alcohol.

Instructions for Use :

Processing : Make sure to work as clean as possible, dirty reservoirs or equipment can cause deformation and therefore failure of the printed objects.

Shake for 5 minutes before use : Shake the bottle for at least 5 minutes prior to the mixing process on the roller mixer. This is required to loosen the (possible) sediment from the bottom of the bottle.

Thoroughly mix before using : Mix the product for 2.0 hours before the first time use. Mix the product for 1.0 hour before each subsequent use. Mixing on a roller stirring device is necessary to disperse the resin and the pigment. Color deviation and print failures may occur when mixed insufficiently.

Fill printer resin tray : Make sure the temperature of the resin is between (20-25°C/68-77°F) and prevent exposure to (sun) light. Pour the resin in the resin tray of the 3D printer. Do not mix different batches of the same product.

Printer settings : Only use the calibrated and/or predetermined settings for your LCD, DLP and SLA 3D printer and Post Wash-Cure system as mentioned in Prevest website. The resin can only be used with a 385nm – 405nm UV light source.

Remove printed parts from platform : When the 3D printer has finished its program remove the building platform from the machine. Place the platform on plastic sheet. The printed parts can now be removed from the platform using a metal scraper.

Cleaning printed parts - Step 1 : Dip the printed parts in an ethanol/Isopropyl and wash it using Post wash-cure system for at least 15 minutes. Remove the cleaned parts and again clean in ethanol/Isopropyl alcohol using an ultrasonic bath for not more than 4-5 minutes as beyond this defect in printed parts may appear.

Finishing : After cleaning and drying, let the printed parts rest for at least 10 minutes to make sure that the printed parts are free of ethanol/isopropyl alcohol residue. Remove any support structures from the printed parts using plastic spatula.

Post-Curing : Place the printed parts in a Post wash-cure system for final polymerization. Post-curing is an UV-light treatment to ensure that printed parts obtain optimal polymer conversion. Through this the residual monomer is reduced to a minimum and the required mechanical properties are obtained. This procedure is necessary to achieve the desired material properties using the Post wash-cure system. To obtain stable cured parts use the prescribed curing time of 45-60 minutes and if possible, further gives cured parts an additional exposure of temperature min. 60°C / 140 °F for 15 minutes.

The dispensed material shall not be placed back in container and the dose once applied and used shall not be reused

Warnings :

The product contains polymerizable substances which may cause skin irritation. If contact with skin occurs, wash thoroughly with soap and water. If skin sensitization occurs, discontinue use. Avoid inhalation or ingestion.

Precautions :

- ◆ Recommended for dental use only.
- ◆ Use of nitrile gloves is recommended until post-curing.
- ◆ Expired or unused resin should be completely cured or polymerized prior to disposal.

Contraindications : C&B-Ceramic Resin should not be used for any other purpose than as a 3D print resin for the manufacturing of dental prosthesis. Any deviation from this instruction for use may have adverse effect on the chemical and physical quality of C&B-Ceramic Resin. In case of an allergic reaction, please contact a medical physician.

Storage Condition : Store the resin in original packaging, preferably in cool and dark place, store at temperature between 5°C(41°F) to 30°C(86°F) and away from high temperatures or direct sunlight.

Shelf Life : 3 years from the date of manufacturing.

Presentation :

Ref : 18013
500g Bottle

Ref : 18014
1000g Bottle

Shades : A1, A2, A3, A3.5, B1, B2, B3, C2, D3, BLEACH AND EXTRA BLEACH

Disposal Conditions : To be disposed off based on the prevailing rules of the country in which it is used.