

## 1. Product Description & Main Ingredients

D Tech 3D C&B Pro resin is resin for 3D printing of single crowns, Crown and bridges, inlays, onlays and veneers.

**Main Ingredients-** Methacrylate monomers & Oligomers, Inert Filler, Photoinitiator, Pigment.

## 2. Indications

It is 3D printing resin intended for the 3D printing of single crowns, Crown and bridges, inlays, onlays and veneers. It can be used for artificial teeth printing. (Subject to the following limitations)

Wall thickness Sides	Not less than 1 mm
Wall thickness Occlusal	Note less than 1.5 mm
No of Units	Max 6 with no pontic
Full anatomic monolithic C&B	Max 1 Pontic (Max. 6-unit bridge)
Full anatomic monolithic C&B	2 Non-consecutive pontics (Max. 6-unit bridge)
Connector area	Minimum 16mm <sup>2</sup>

## 3. Contraindications

- 3.1 Should not be used for purposes other than the production of single crowns, inlays, onlays and veneers (As defined in the Indications)
- 3.2 Any processing which deviates from that described in the instructions for use can have negative consequences on the chemical and physical quality of 3D C&B. Please contact a practitioner/doctor if an allergic reaction or intolerance occurs.

## 4. Precautions (Please read carefully before use)

- 4.1 Protective clothing must be worn when handling 3D C&B. Safety goggles and nitrile gloves must be used.
- 4.2 Further information on handling the product can be found in the safety data sheet. However, we cannot completely rule out the possibility of personal reactions to individual components in isolated cases. In such cases, the respective user should discontinue use of 3D C&B Pro.

### Inhalation

May cause respiratory irritation.

### Skin contact

Sensitization or irritation are possible from contact with the skin. Repeated and/ or extended skin contact can cause inflammations.

### Eye contact

High air concentrations can lead to eye irritations.

### Swallowing

Low oral toxicity; ingestion can, however, lead to irritation of the gastrointestinal tract.

### 4.3 Sensitivity

Some lab technician may experience transitory postoperative sensitivity. The risk of sensitivity can be minimized by doing small sensitivity test on hand.

## 5. Direction For Use

### 5.1 Preparation

In Bottle: Agitate/shake bottle vigorously prior to pouring for at least one minute.

In Material Tray: Stir material with a soft spatula. Take care not to damage the film of the Material Tray.

This step is necessary to re-disperse the (possible) pigment sediment from the bottom of the vessel.

Color deviation and print failures may occur if insufficiently mixed

The ideal working temperature of 3D C&B is in the temperature range between 15°C and 30°C.

**Note-** C&B Resin is one of the system components in the 3D print system. The printing settings can be found in the instructions for use for the respective printer or write to info@dtechasia.com

### Design of the C&B Files

Once the intraoral scans of the patient are submitted to a dental-design service/lab, the crown or bridges is designed and provided in STL file format by the dental-design service/lab.

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## 5.2 Printing Process

- 5.2.1 Please wear protective gloves (nitrile gloves), protective clothing, goggles and/or face protection during processing.
- 5.2.2 The material must be shaken thoroughly for minimum 3 min before being poured into the clean tray of 3D Printer. (If not shaken sufficiently, this can lead to inhomogeneities within the crown and/or to deviations in the shade of the crown printed)
- 5.2.3 When decanting, make sure that the printing resin is not exposed to daylight.
- 5.2.4 For further processing – selecting the resin, setting up the print job – as part of the printing process, follow the respective printer instructions for use.
- 5.2.5 Apply D Tech Accuprint C&B setting. (For settings to be used on your specific printer you can write to info@dtechasia.com)  
Before each print, check for air bubbles between build platform and the bottom of the tray. Air bubbles can negatively affect the print result.  
Avoid sharp objects like a metal spatula, so as not to damage the FEP film.

## 5.3 Washing of 3D C&B

- 5.3.1 On completion of printing, the print objects are detached from the build platform by using the spatula supplied.
- 5.3.2 The print object should be cleaned in two steps with IPA using cleaning bath.
- 5.3.3 1<sup>st</sup> Wash- Clean the print object for 1m 30sec in IPA solution in cleaning bath
- 5.3.4 2<sup>nd</sup> Wash- The precleaned print object must be cleaned thoroughly for 1m 30sec using a fresh IPA solution  
**Notes-** The entire cleaning process should not take longer than 3 minutes as this could otherwise have a detrimental effect on the print objects

## 5.4 Finishing, Post curing

- 5.4.1 Support structures, if present, are removed with the help of fine diamond bur.
- 5.4.2 It must be ensured that the printed object is not deformed
- 5.4.3 The completely cleaned print objects must be post-cured to attain the required material properties and biocompatibility. some curing profile has been tested by D tech as below  
Asiga Flash Cure (low power) - 30min  
Ackuretta Curie (High power flashing system) - 10min

### Finishing

- 5.4.4 Remove if any support marks present with the help of fine diamond bur
- 5.4.5 Polish with Cotton and leather polishing wheel for 1min each.
- 5.4.6 For better look and polish we recommend use of D tech Pro-Glaze liquid, follow instructions of Pro glaze

## 6. Packaging & Variants


- High Grade Recyclable HDPE Amber color Bottle containing 500g
- Shade A1, A2, A3, B1, Bleach

## 7. Storage& Handling:

Product can be stored at room temperature tightly close the cap after each use to avoid the material curing from ambient light. Do not use after the expiry date.

### Disposal

D Tech C&B in its polymerized form is not environmentally harmful thus can be disposed of in general waste. C&B in its liquid state (uncured) should be treated as chemical waste. Special disposal requirements are applicable, check with your local, federal, or other regulatory agencies for disposal requirements

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