

3D Accuprint CAST

Reference No. IFU/CR/01/0620



1. Product Description & Main Ingredients

D Tech 3D Accuprint Cast resin is used for 3D printing of burnout objects.

Main Ingredients

Methacrylate monomers & Oligomers, Photoinitiator, Pigment.

2. Indications

It is a light-curing resin for the 3D printing of burnout frames such as partial dentures, crowns and bridges, inlays, onlays, and veneers. It is restricted to use in dental applications and may only be used by dental staff

3. Contraindications

- 3.1** 3D Cast should not be used for any purposes other than the production of 3D printing of burnout frames such as partial dentures, crowns and bridges.
- 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 Cast. 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 Cast. Safety goggles and nitrile gloves must be used.
- 4.2** Instructions on how to handle plastic parts made of 3D Cast. A dust mask must be worn too due to potential dust formation while the printed objects are being processed.
- 4.3** Depending upon the furnace temperature, combustion gases that are harmful to health may form while objects are being preheated and burnt out. A sufficiently high temperature in the preheating furnace helps the cured plastic to combust completely to carbon dioxide, water and nitrogen oxides. At temperatures of 700°C or more, the residual ash content is less than 0.1% by weight. It is advisable that the furnace should be kept under extraction hood.
- 4.4** 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 Cast.

Skin contact

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

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. Application Method

Note. The printing settings can be found in the instructions for use for the respective printer.

5.1 Printing of Cast

- 5.1.1** Please wear protective gloves (nitrile gloves), protective clothing, goggles and/or face protection during processing.

- 5.1.2 The material must be shaken thoroughly for approx. 2 min before being poured into the clean tray of 3D Printer. (If not shaken sufficiently, this can lead to in homogeneities within the part and/or to deviations in the colour of the part or dies)
- 5.1.3 When decanting, make sure that the printing resin is exposed to daylight for as short a period of time as possible.
- 5.1.4 For further processing – selecting the resin, setting up the print job – as part of the printing process, follow the respective printer instructions for use.
Notes- Before starting any printing procedure, 3D Cast must be inspected. If a transparent layer is visible on the surface, it must be mixed until homogeneous. Insufficient mixing can lead to deviations in the colour of the printing resin

5.2 Washing of Cast

- 5.2.1 On completion of printing, the print objects are detached from the build platform by using the spatula supplied.
- 5.2.2 The print object should be cleaned in two steps with ethanol (96%)/IPA using cleaning chamber.
- 5.2.3 Dirty wash- Clean the print object for 3 min in a reusable ethanol/IPA solution (96%) in cleaning chamber.
- 5.2.4 Clean wash -The precleaned print object must be cleaned thoroughly for 3 min using a fresh ethanol/IPA (96%) solution
- 5.2.5 Remove the print object from the bath and dry with compressed air, using suction if possible.
- 5.2.6 Inspect the objects for resin residue (shiny areas) and remove these by spraying with ethanol/IPA (96%).
Notes- The entire cleaning process should not take longer than 6 minutes as this could otherwise have a detrimental effect on the print objects

5.3 Finishing and Post curing

- 5.3.1 Support structures, if present, are removed.
- 5.3.2 It must be ensured that the printed object is not deformed
- 5.3.3 Post cure the object in post curing chamber.

6. Packaging & Variants


- Amber color Bottle 500g

Color:

Purple, Red

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.

 <p>D Tech Dental Technologies, 62, Reality Warehousing Gat No 2323/1, Wagholi Pune India- 412207 Customer Care- 9370145806 E Mail – info@dtechasia.com</p>	<p style="text-align: center;">Limitation of Liability</p> <p>Except where prohibited by law, D Tech will not be liable for any loss or damage arising from this product, whether direct, indirect, special, incidental or consequential, regardless of the theory asserted, including warranty, contract, negligence or strict liability</p> <p style="text-align: center;">For Use of Professional Dentist Only</p>	<p style="text-align: center;">EC REP</p> <p>European Representative OBELIS S.A Bd. General Wahis, 53 1030 Brussels, Belgium. Origin- 15 June 2021 Rev. 01</p>
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