

Temporary Crowns & Bridges

Application: Prosthetic Restoration

Crowns and bridges are used for prosthetic reconstruction purposes in order to replace damaged or missing teeth. Temporary crowns and bridges are put in place for a short period of time while the final full crowns and bridges are being made.

Requirements

Material: Medical device class Ila

Production Method: High precision, exact fit

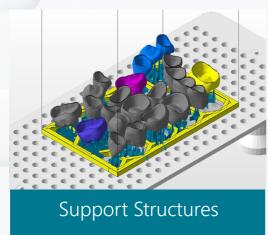
Recommended Material

SolFlex Prov A1/A2/A3

Digital Workflow

Preparation: Prior to the printing process, the crowns and bridges have to be prepared for printing. A 3D printing software helps to place the model on the building platform. Also, support structures have to be added.





Printing Process: In the next step, the prepared files are being processed by the printer. In this specific case the temporary crowns and bridges were 3D printed under the following conditions:

3D printer: SolFlex 150 PLUS

Layer thickness: $50 \mu m$ Printing time:39 min.

Resin: SolFlex Prov A2

Number of printed objects: 11

Resin use: 8.85 g

Total resin use (incl. support structures): 13.85 g

Total resin costs: \notin 4.71

Depending on the size of the 3D printer's building platform, a different number of crowns and bridges can be 3D printed.

Number of crowns and bridges that fit on the building platform:

 SolFlex 650:
 66

 SolFlex 363:
 42

 SolFlex 350:
 33

 SolFlex 170:
 22

 SolFlex 150:
 11

Post-Processing: The 3D printed crowns and bridges are post-cured in a UV light box, cleaned and the support structures have to be removed. For a finish, the crowns and bridges are polished to get a perfect surface.

