



screw-retained crown using the PEEK temporary cylinder abutment

Use this technique for the fabrication of short term (30 days), screw-retained single or multiple unit temporary restorations. This abutment is designed for chair-side restorations for developing optimal soft tissue contour and can be used when immediate load is indicated.

component options

- PEEK temporary cylinder abutments
- .050" (1.25mm) hex driver
- torque wrench
- direct coping screws

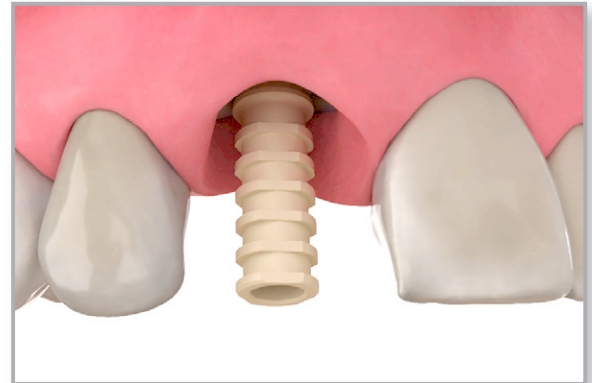
1 Place the PEEK temporary cylinder abutment

Make sure the implant prosthetic platform is free of bone and soft tissue. Snap the PEEK temporary cylinder abutment onto the implant using downward pressure.



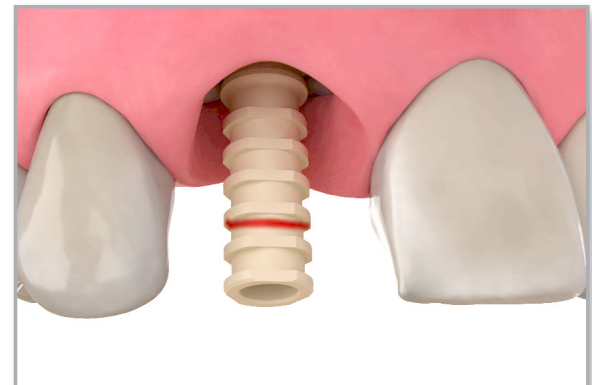
Note:

Snap feature creates a friction fit which will retain the abutment without the use of an abutment screw.



2 Mark the abutment

Evaluate inter-occlusal dimensions, angulation, and tissue contour. Mark the abutment for the required vertical reduction.



3 Modify the abutment

Remove the marked plastic abutment and place it on the abutment prepping handle using an .050" (1.25mm) hex driver and hand tighten. Modify the abutment for vertical clearance and gingival margins using a carbide or acrylic bur.



Important:

Maintain at least 3mm of abutment height to avoid damaging the abutment screw.





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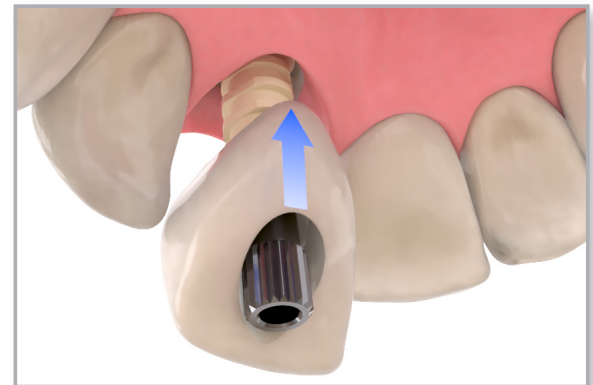
4 Try in the shell crown

Verify the implant prosthetic platform is free of bone and soft tissue. Irrigate the internally-threaded connection of the implant and dry. Snap the modified abutment onto the implant. Try in the appropriate poly-carbonate/shell crown and modify as needed.



5 Create an access hole

Place the direct coping screw. Finger tighten using the knurled top or hand tighten using an .050" (1.25mm) hex driver. Create a screw access hole through the shell crown allowing the direct coping screw to pass through.



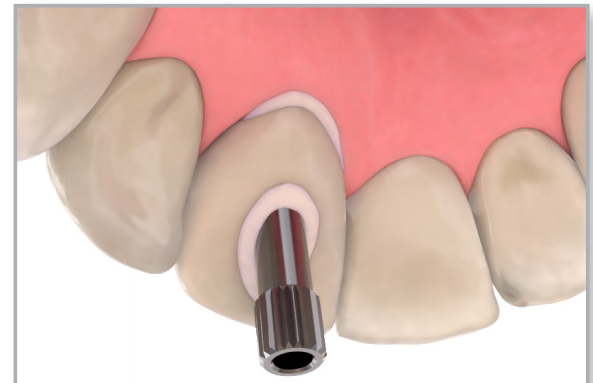
6 Fill the shell crown

Mix acrylic or another material of choice and place inside the shell crown. Position the shell crown over the direct coping screw onto the modified plastic abutment.



Note:

Undercuts on adjacent teeth should be blocked-out prior to this reline procedure.



7 Remove and polish the crown

Remove the direct coping screw and the relined shell crown using an .050" (1.25mm) hex driver. Place the screw-retained temporary crown onto the abutment prepping handle using the abutment screw. Contour and polish the temporary crown.

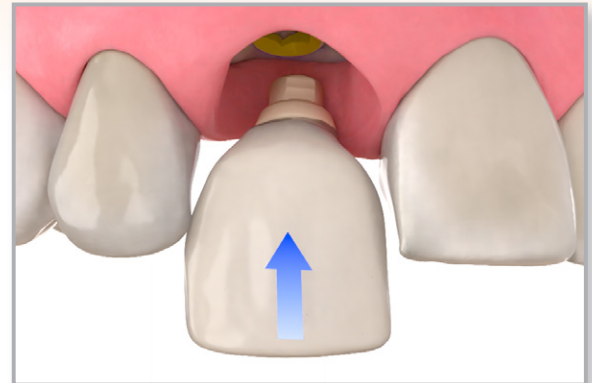




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8 Re-seat the crown

Make sure the implant prosthetic platform is free of bone and soft tissue. Irrigate the internal connection of the implant and dry. Try in the prosthesis to confirm fit and contour. Modify as necessary and polish after making adjustments. Re-seat the prosthesis onto the implant and hand tighten the abutment screw using an .050" (1.25mm) hex driver.



9 Check and modify the temporary

Check the occlusion and contacts. There should only be light contact in centric occlusion and no contact in lateral excursions. Modify as necessary and polish after making adjustments.



10 Tighten the abutment screw

Tighten the abutment screws to 30 Ncm using a calibrated torque wrench and an .050" (1.25) hex driver.



Note:
Tightening the abutment screw to 30 Ncm is not recommended if the temporary is placed at the time of surgery.



11 Fill the screw access channel

Place a resilient material of choice (gutta-percha, silicone or temporary filling material) into the screw access channel. This allows for easy access to the abutment screw in the future. Fill the remainder of the channel using a composite resin material of choice. Take an x-ray for temporary prosthesis delivery records.

