



screw-retained crown using a PEEK temporary abutment

Use this technique for the fabrication of short term (30 days), screw-retained single or multi unit temporary restorations. Temporaries may be used at the time of surgery, uncover, or following an implant-level impression.

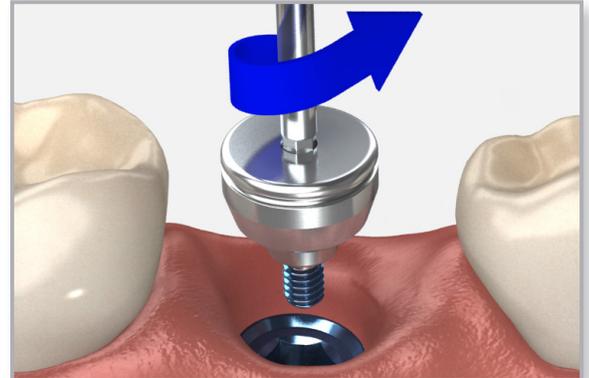


component options

- PEEK temporary abutment
- .050" (1.25mm) hex driver
- torque wrench
- abutment prepping handle
- direct coping screw

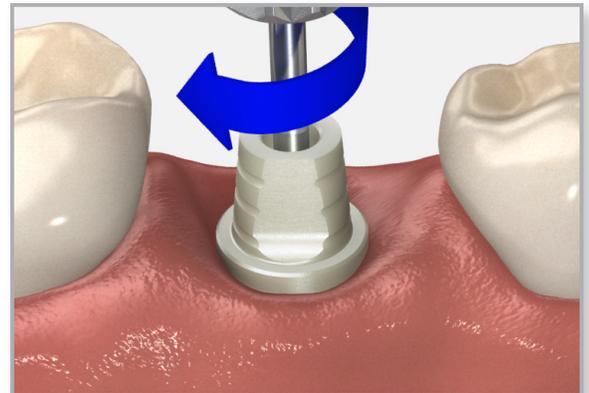
1 Remove the healing abutment

Remove the healing abutment using an .050" (1.25mm) hex driver. Make sure the prosthetic platform is free of bone and soft tissue.



2 Seat the PEEK abutment

Seat the plastic temporary abutment, engaging the hex of the implant. Hand tighten the abutment screw using an .050" (1.25mm) hex driver.

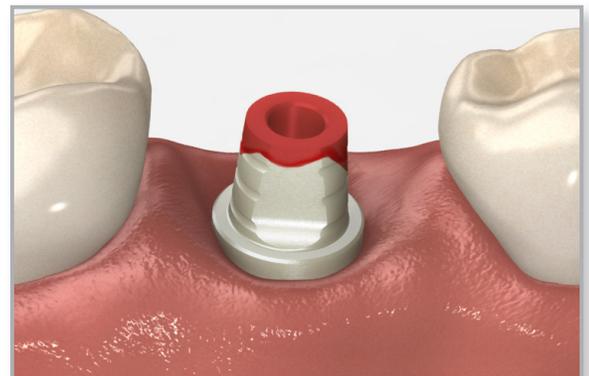


3 Mark the abutment

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



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





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4 Modify the abutment

Remove the marked plastic abutment from the model 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.



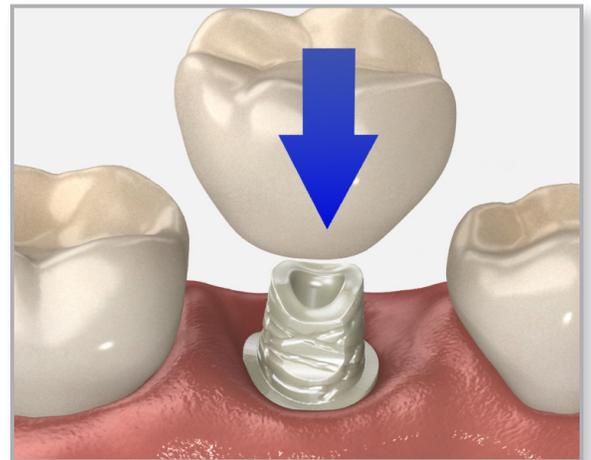
Note:

Replace the healing abutment immediately to prevent soft tissue collapse over the implant.



5 Create undercuts

Add undercuts to the surface of the modified abutment for mechanical retention of the acrylic.



6 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. Place the modified abutment onto the implant using the abutment screw and an .050" (1.25mm) hex driver. Hand tighten. Try in the appropriate polycarbonate/shell crown and modify as needed.



7 Create an access hole

Remove the abutment screw from the modified plastic abutment and replace it with the direct coping screw using an .050" (1.25mm) hex driver. Create a screw-access hole through the shell crown allowing the direct coping screw to come through. Finger tighten using the knurled top or hand tighten using an .050" (1.25mm) hex driver.



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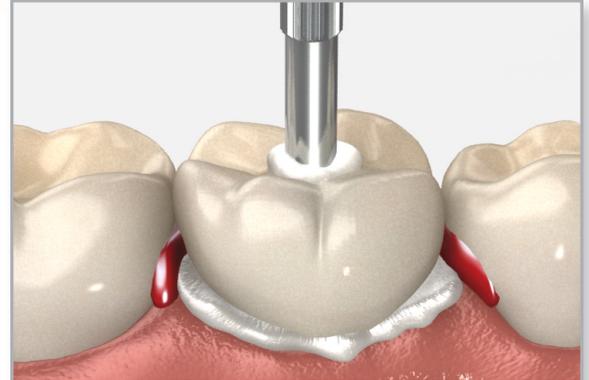
8 Fill the shell crown

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.



9 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.



10 Re-seat the crown

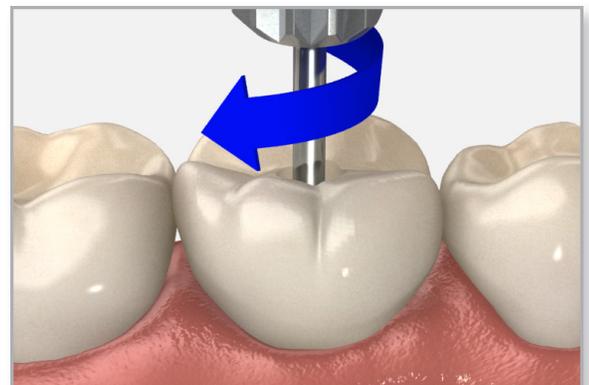
Make sure the implant prosthetic platform is free of bone and soft tissue. Irrigate the internal connection of the implant and dry. Try in the prosthesis to confirm fit and contour. Modify as necessary and polish after making adjustments.

Re-seat the prosthesis onto the implant and hand tighten the abutment screw using an .050" (1.25mm) hex driver.



Note:

Take a radiograph along the long axis of the implant to ensure the abutment is seated completely onto the implant.





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11 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.



12 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.



13 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.

