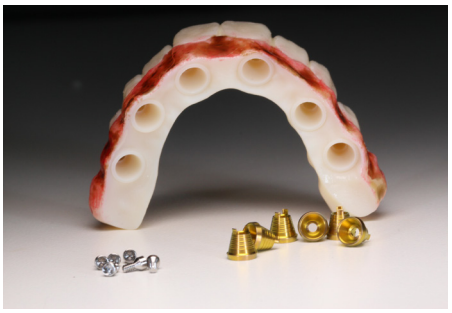
STEP BY STEP
Cementation procedure

DIGITAL WORKFLOW OF THE INTRAORAL CEMENTATION PROCEDURE

This cementation process describes the workflow for intra-oral cementing on Elos Accurate® Hybrid Base™ Non-Engaging with a fully monolithic zirconia screw-retained bridge. The conical design of the hybrid bases enables intraoral cementation if the implants have a divergence angle of less than 30° relative to each other. IIntraoral cementation facilitates the conditions for passive fitting.

We used Panavia™ V5 from Kuraray Noritake, which is approved for Elos Accurate Hybrid Base on the EU market. We are currently working on approval for the US market.

The patient was intra-orally scanned with Elos Accurate Scan Body. The cement space is preset in the Elos Accurate Library to 40µm.



1. An overview of the hybrid bases, screws and the monolithic zirconia bridge

2. Before cementing, clean the surface thoroughly with alcohol 99.5% (<95% alcohol) or KATANA™ Cleaner.

Sandblasting of the hybrid base is not allowed.

Note: Blasting of Hybrid Base™ is not necessary, but if blasted make sure to protect the implant/abutment interface.

3. Clean the surface thoroughly with the KATANA™ Cleaner, it only takes 10 seconds to complete and can be used both intra and extra orally.

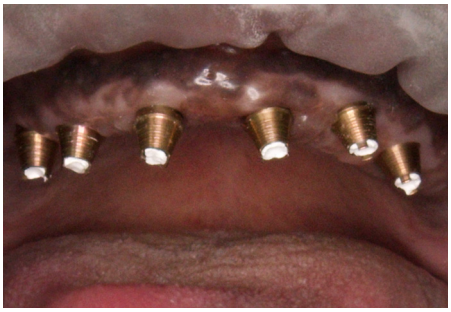
4. Make sure you get the "antennas", the Guide Grip™ Technology, in the right position. There is a 360° rotation possiblility.

5. Hybrid bases mounted in the zirconia bridge.

6. Install the monolithic zirconia bridge on the implants, torque about 10Ncm (hand-torque).

Elos Medtech • Engvej 33 • DK-3330 Gorlose • Denmark
+45 48 21 64 99 • dentalsupport@elosmedtech.com • www.elosdental.com

7. Remove the bridge and hand-torque the screws in the hybrid bases. If there is any uncertainty of the seating, take an x-ray.



8. Cover and block the screw head to protect the screw against cement residue entering the screwdriver's mount. We used thread tape.

NOTE: If hybrid base surface is contaminated with saliva, clean the surface with KATANA™ Cleaner before CLEARFIL™ CERAMIC PRIMER PLUS is applied.

9. Apply CLEARFIL™ CERAMIC PRIMER PLUS for the entire hybrid base surface.

The ceramic primer is developed for Zirconia (ZrO_2) glass ceramics, porcelain, composite, Ti, and CoCr.

10. Sandblast inner geometry of the milled dental restoration that encloses the hybrid bases with Al_2O_3 50-150 µm, blasting pressure of 2 bar. Protect outer surface from blasting.

Apply the CLEARFIL™ CERAMIC PRIMER PLUS in the zirconia bridge restoration.

11. Panavia™ V5 paste is available in 5 different colours. The opaque paste is self-curing and the other dual-cured.

Use the PANAVIA™ V5 Try-in-Paste for a predictable result of the aesthetics of the finished design.

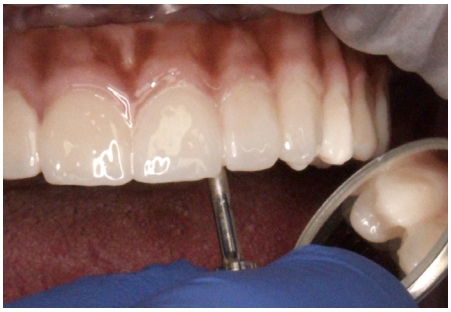
12. Apply the cement paste with a brush and make sure that all surfaces of the hybrid bases are covered. You can also apply cement paste in the cavities of the bridge structure.

13. Place the bridge on the hybrid bases covered with cement paste. Self-Cured: Use pressure (15N) on bridge during curing time. Wait 3 minutes (self-cure) before proceeding to the next step (Figure 14). If you only use transparent cement paste - light cure the excess cement for 3-5 seconds, remove excess cement from the hybrid bases. Then continue with light curing for 10 seconds per surface.

14. Remove the thread tape with a sharp instrument (explorer).

15. Unscrew the bridge, the hybrid bases are now fully cured in the bridge. The bridge with its hybrid bases is now a unit and intraoral cementation will facilitate the conditions for passive fitting.

16. Ensure that all excess cement is removed before restoration is permanently installed.



17. Screw the bridge to the final torque according to the implant manufacturer's recommendations.

18. The bridge is mounted without tension on the dental implants.