



GC Products for Cementation of Hybrid Abutments

G-CEM ONE™	
	1x G-CEM ONE Syringe (4,6g) AO3, 8x GC Automix Tips Regular, 2x GC Automix Endo tips
	GC Automix Tips Regular, 10 pcs



FIT CHECKER™ ADVANCED BLUE	
	Blue, 2 x 56g (48ml) Cartridges, 3 Mixing Tips IIS (rosa), 3 Mixing Tips IISS (yellow)
	Cartridge Dispenser



G-Multi PRIMER	
	G-Multi PRIMER, 5ml liquid



GRADIA DIAPOLISHER	
	DIAPOLISHER PASTE 2g

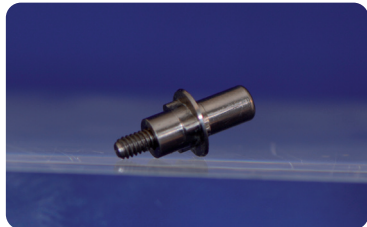


Technique Guide for Extra-oral Cementation of Hybrid Abutments with G-CEM ONE™

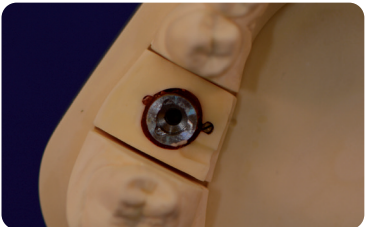
GC's G-CEM ONE is a dual-cure self-adhesive universal resin cement, designed for the adhesive luting of all-ceramic, metal or composite indirect restorations. Its features and properties make it a suitable option for the cementation of hybrid abutments at the laboratory side. Offering the high polymerization in self-cure mode, G-CEM ONE ensures predictable results, even in cases in which the transmission of light cannot be assured*. The use of MDP in G-CEM ONE guarantee a superior bond strength^ and durability^ to both titanium and zirconia, without the need of pre-treatment with primers. G-CEM ONE is delivered in a double barrel automix syringe which facilitates the handling with minimal waste. It also shows one of the thinnest film thicknesses in the market (5 µm) for an ease of fit of prosthetic parts^.

*Miyazaki S (2020). Excellent curing properties: chemical polymerization and comfortable clinical practice compatibility of G-CEM ONE. Clinical Advance; 7:167-169.
^GC R&D, Data on file.

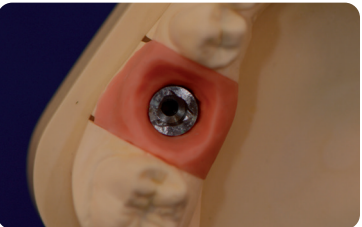
Components



Ti abutment + screw



Implant analog in position



Implant analog + gingival collar (occlusal view)



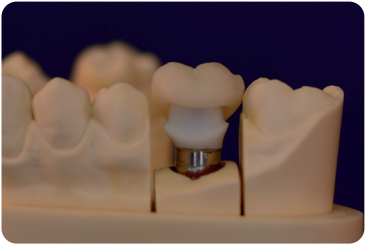
Implant analog + gingival collar (lateral view)



Implant analog + Ti abutment



Implant analog + Ti abutment + Zr abutment



Implant analog + Ti abutment + Zr abutment + Ceramic Crown

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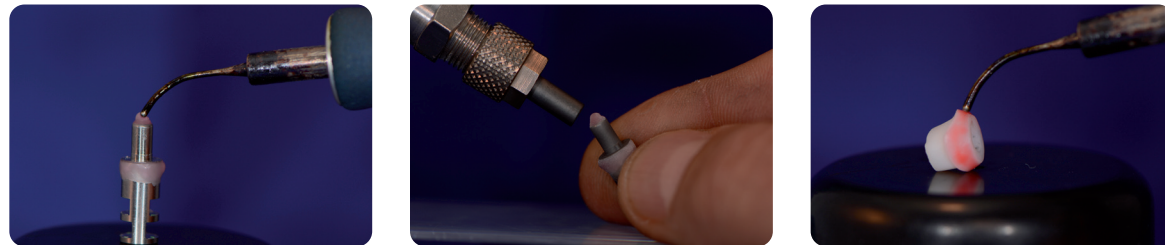


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Step by Step



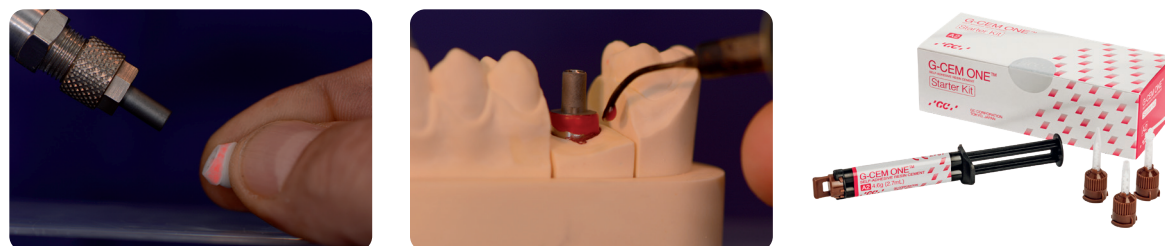
Hold the Ti abutment and check the fit of the Zr abutment. Color spray can be used. We do recommend GC Fit Checker™ Advanced Blue which is simpler to handle and delivers higher precision on the visualization of pressure spots. If necessary, adjust the fit by grinding the inner part of the Zr abutment.



Block the screw channel and protect the margins with wax. Only the bonding surface should be exposed.

Sandblast the bonding surface of the Ti abutment with 50 µm Al₂O₃ and maximum 2 bars maintaining around 1 cm distance from the abutment.

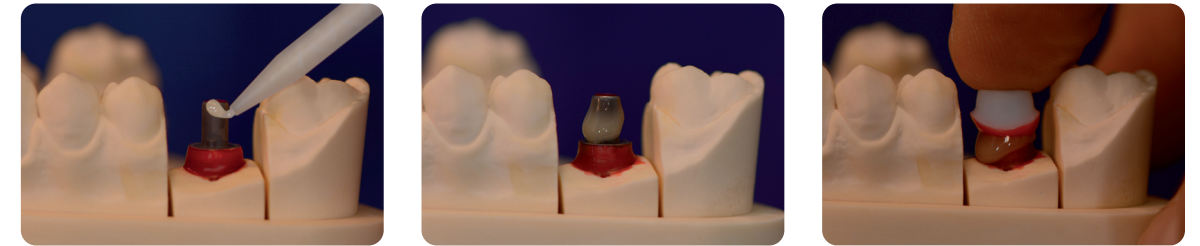
Protect the margins of the Zr abutment with wax.



Sandblast the bonding surface (inner part) of the Zr abutment using the same parameters.

Place the Ti abutment in the implant replica and protect the margins with wax.

For the cementation, we recommend G-CEM ONE, shade AO3 (opaque). Always check the opening of the tube before attaching the mixing tip. Bleed a small amount of the pastes to level them if needed.



Using the automix tip, extrude the cement around the upper circumference of the Ti abutment. The cement will slowly flow down. This will help to avoid bubbles in the cement line. Important: always discard the very first paste extruded from the mixing tip as it may not present an ideal proportioning of pastes A and B.

Place the Zr abutment in position. The working time of the cement is 2'45" from start of mixing. Do not allow any movement of the Zr abutment.



Remove excess cement. Wait until the cement reaches a rubbery consistency for easy excess removal.

Light cure each side for 20 seconds with a Halogen/LED lamp with minimum of 700 mW/cm² (wavelength between 430 and 480 nm).

Hybrid abutment after cementation.



Polish the margins with a polishing rubber and GRADIA DIAPOLISHER.



Replace the hybrid abutment on the implant analog.

Proceed with the preparation of the crown. For the cementation of the crown on the hybrid abutment, we also recommend G-CEM ONE.