



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 the ideal option for the cementation of abutments at the laboratory side. Offering a high polymerization in self-cure mode, G-CEM ONE ensures perfect results, even in cases in which the transmission of light cannot be assured. The use of MDP in G-CEM ONE guarantees a superior bond strength and durability to both Titanium and Zirconia, without the need of pre-treatment with primers. However, when used on Glass Ceramics, the use of a silane containing primer is recommended. 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 a perfect fit of prosthetic parts*.

*All data available on request

Components



Aadvia Ti-base abutment + screw



Model with implant analog + Ti-base abutment + gingival collar (occlusal view)



Implant analog + gingival collar (lateral view)



Implant analog + Ti-base abutment

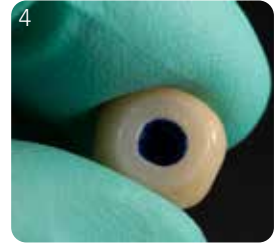
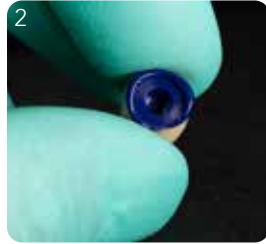


Implant analog + Ti-base abutment + Full Ceramic crown (Zirconia base)



Since 1921
100 years of Quality in Dental

Step by Step



Hold the Ti base abutment and check the fit of the Full Ceramic crown. Color spray can be used. We do recommend 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 Full Ceramic crown.



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



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



Protect the margins of the Full Ceramic crown with wax.



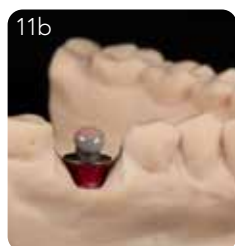
Sandblast the bonding surface (inner part) of the Full Ceramic crown using the same parameters. In case of Glass-Ceramic crown, the substrate should be acid etch with Hydrofluoric acid etching and not sandblasted.



Place the Ti-base abutment in the implant analog.



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. Depending of your aesthetic requirements, G-CEM ONE is also available in a White Opaque shade.



Using the automix tip, extrude the cement around the upper circumference of the Ti-base 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. In case of a Glass-ceramic substrates, it is recommended to prime the restoration with Silane (G-Multi PRIMER or CERAMIC PRIMER II). In case of Zirconia, no pre-treatment of the restoration is required.

Place the Full Ceramic crown in position. The working time of the cement is 2'45" from start of mixing. Do not allow any movement of the Full Ceramic crown, while applying pressure.



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).



For optimal light-curing, we recommend Labolight DUO in full mode.



Polish the margins with a polishing rubber and use DIAPOLISHER PASTE.



Discover all GC Primers



Place the completed hybrid abutment on the implant analog. Final view.



In case of two-stage hybrid abutment technique, cementation can be done with G-CEM ONE. In case of Glass-ceramic, pre-treatment of the restoration is required with Silane (G-Multi PRIMER or CERAMIC PRIMER II). In case of Zirconia, no pre-treatment of the restoration is required.



GC Products for Cementation of Hybrid Abutments

G-CEM ONE™	
013666	1x G-CEM ONE Syringe (4,6g) AO3, 8x GC Automix Tips Regular, 2x GC Automix Endo tips
900668	GC Automix Tips Regular, 10 pcs
FIT CHECKER™ ADVANCED BLUE	
004905	Blue, 2 x 56g (48ml) Cartridges, 3 Mixing Tips IIS (rosa), 3 Mixing Tips IISS (yellow)
800006	Cartridge Dispenser
METAL PRIMER Z	
009295	METAL PRIMER Z, 5ml Liquid
CERAMIC PRIMER II	
008551	CERAMIC PRIMER II, 3ml Liquid
008620	CERAMIC PRIMER II, Unit Dose pack, 10 pcs
G-Multi PRIMER	
009553	G-Multi PRIMER, 5ml Liquid
GC DIAPOLISHER PASTE	
004415	GC DIAPOLISHER PASTE, 2gr
LaboLight DUO	
10001246	Labolight DUO



For more information on GC products, please visit our website:
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For more information on GC Aadva implants, please visit our website:
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