

EN Prior to use, carefully read the instructions for use.

DE Vor der Benutzung bitte die Gebrauchsanweisung gründlich lesen!

FR Avant toute utilisation, lire attentivement les instructions d'emploi.

IT Leggere attentamente le istruzioni prima dell'uso.

ES Antes de usar, lea detenidamente las instrucciones de uso.

NL Lees voor gebruik zorgvuldig de gebruiksaanwijzing.

G-CEM™ Veneer LIGHT-CURED ADHESIVE RESIN CEMENT

For use only by a dental professional in the indications for use.

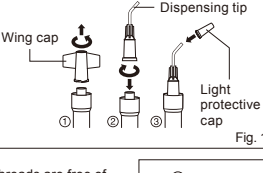
INDICATIONS FOR USE
Adhesive luting of ceramic and composite veneers, inlays and onlays with a thickness (< 2.0mm) and translucency that enables the complete light-curing of the cement.

CONTRAINDICATIONS
1. Direct contact with this product in patients with known allergies to methacrylate resin, methacrylate monomer or methacrylate polymer.
2. Avoid use of this product in patients with known allergies to methacrylate resin, methacrylate monomer or methacrylate polymer.

PRODUCT DESCRIPTION
G-CEM Veneer is a light-cure, radio-opaque luting material to be used intra-orally and classified as a Type 2 and Class 2 (Group 1) per ISO standard 4049. This material has a radiopacity equivalent to 2.5-3.0 mm of aluminium (density = 1 mm, esmalte = 2 mm).
The particle size of inorganic fillers is approximately 0.1-0.5 µm. The total amount of inorganic filler is approximately 46 vol%.

COMPOSITION
Barium glass, dimethacrylate, initiator, pigment, silicon dioxide, stabilizer

HOW TO USE G-CEM VENEER SYRINGE
a) Hold the syringe upright and remove the wing cap by turning counterclockwise.
b) Pumping and securely attach the dispensing tip to the syringe by turning clockwise.
c) Place the light protective cap over the dispensing tip.



NOTE:
Take care not to attach the dispensing tip too tightly. This may damage the syringe. In order to ensure a tight connection make sure that the threads are free of restorative material.
ii. In order to remove any possible air entrapped in the dispensing tip, gently push forward the syringe plunger with the tip pointing upwards until material reaches the opening of the tip (Fig. 2).
iii. If blocked, remove the cap and extrude a small amount of material directly from the syringe.
iv. Minimal exposure to ambient light. Ambient light can shorten the manipulation time.
v. After use, immediately remove and dispose the dispensing tip and tightly close the syringe with the wing cap.

CEMENTATION PROCEDURE OF VENEERS, INLAYS, ONLAYS
1. TRIAL FIT OF THE RESTORATION
a) Clean the preparation and clean the prepared tooth using a brush and pumice slurry to remove any remaining cement.
b) Rinse the prepared tooth with water.
c) Check the fit, shade and contact of the final restoration.
d) If necessary, use G-CEM Try-In Paste for trial fit.

NOTE:
HOW TO USE G-CEM Try-In Paste
i. Hold syringe upright and remove wing cap by turning counterclockwise. ii. Properly and securely attach dispensing tip to the syringe clockwise. iii. Dispense G-CEM Try-In Paste into the internal surface of the restoration and seat onto the preparation. iv. Place the wing cap back on the syringe promptly after use. v. Check fit and contact of the restoration. vi. Remove restoration and thoroughly rinse the internal surface with water. Make sure that G-CEM Try-In Paste is thoroughly removed before proceeding to bonding step as residual paste would cause a decrease in bond strength.

2. PRE-TREATMENT OF THE RESTORATION
a) Make sure that the restoration is pre-treated and handled according to the instructions of the manufacturer. b) For glass ceramics: etch with hydrofluoric acid for 20 seconds for lithium disilicate (e.g. GC Initial LIS/Press) and 60 seconds for feldspathic and leucite-reinforced ceramics (e.g. GC Initial LRF/Block). Rinse thoroughly with water and dry with oil-free air. c) For zirconia, zirconium oxide ceramics (e.g. CERAMSTAR1270™) and composite: sandblast* and blow clean with oil-free air. If necessary, clean with ultrasonic bath. Rinse thoroughly with water and dry with oil-free air.

NOTE:
* Follow manufacturer's instructions for the parameters of sandblasting (e.g. CERAMSTAR1270). If a sandblaster is not available, etch with hydrofluoric acid for 20 seconds for lithium disilicate (e.g. GC Initial LIS/Press) and 60 seconds for feldspathic and leucite-reinforced ceramics (e.g. GC Initial LRF/Block).
b) Apply G-CEM PRIMER to the bonding surface of the restoration and dry with an air syringe. In case of using other silane coupling agents, follow the instructions of the manufacturer.

3. PRE-TREATMENT OF THE PREPARATION
a) Clean the preparation with ultrasonic brush. Dry by gently blowing with an air syringe. For cup filling, use calcium hydroxide.
b) Select from the following two techniques:
i. Selective application of G-CEM Bonding Agent. Etch enamel only with 35-40% phosphoric acid gel (e.g. GC ECTHANT) for 15-20 seconds. Rinse with water and gently dry.
ii. Total-etch technique: Etch enamel and dentin with 35-40% phosphoric acid gel (e.g. GC ECTHANT) for 15-20 seconds. Rinse with water and gently dry.

Apply G-Cem PRIMO BOND on the prepared surface. Leave undisturbed for 10 seconds. Dry the preparation with an air syringe for 5 seconds with oil-free air under MAXIMUM AIR PRESSURE.
NOTE:
Isolation with rubber dam is recommended. Use a tooth with luting with MAXIMUM AIR PRESSURE to obtain the firm fit. G-Cem cure using a light curing unit. See Table 1 for the irradiation time.

4. CEMENTATION
a) Coat internal surface of the restoration with sufficient cement.
NOTE:
i. Exposure to intensive light should be avoided during application as it reduces the manipulation time and bond strength. ii. When other bonding agents are used, refer to the IFU of manufacturer of the bonding. Light curing of the bond is recommended to reach optimal bond strength of the system.

Light curing unit	Distance from light guide tip	Irradiation time
Halogen/LED >700 mW/cm²	< 10 sec. > 10 mm	10 sec.
High power LED >1,200 mW/cm²	5 sec. > 10 sec.	5 sec.

5. FINAL POLISHING
Polish the restoration margins using appropriate instruments for the polishing of composite resins.
SHADES
Translucent, A2, Bleach, Opaque

STORAGE
Recommended for optimal performance, store in a cool and dark place (4-25°C / 39.2-77.0°F) away from high temperatures or direct sunlight.

CAUTION
1. In case of contact with oral tissue or skin, remove immediately with cotton or sponge soaked in alcohol. Flush with water. To avoid contact, a rubber dam or COCCA BUTTER can be used to isolate the operation field from the skin or oral tissue.
2. In case of contact with eyes, flush immediately with water and seek medical attention.
3. Take care to avoid ingestion of the material.
4. Do not mix with other similar products.
5. Dispensing tips should be used only, to prevent cross contamination between patients, do not reuse the dispensing tip. The dispensing tip cannot be sterilized in an autoclave or chemically.
6. Wear plastic or rubber gloves during operation to avoid direct contact with air inhibited resins in order to prevent possible sensitization.
7. Wear protective eyeglasses during light curing.
8. When polishing the polymerized material, use a dust collector and wear a dust mask to avoid inhaling particles.
9. Avoid getting material on clothing.
10. In case of contact with unintended areas of tooth or prosthetic appliances, remove with instrument, sponge or cotton pellet before light-curing.

2. In case of use G-CEM Veneer in combination with eugenol containing materials as eugenol may inhibit polymerization. Do not use G-CEM Veneer in combination with substances like hydrogen peroxide (H₂O₂) as H₂O₂ may hinder G-CEM Veneer from setting or bonding properly.

3. Do not use G-CEM Veneer in the detection mode in order to identify any remnants of excess cement or to remove the excess cement using a probe or another appropriate instrument. Residual cement may be removed using a good combination depends on the light curing unit being used. It is important to find the best combination of time, intensity, and distance of the light curing in use.

NOTE:
i. The effective wavelength range of each dental curing unit must cover 450-480 nm. ii. To avoid the oxygen inhibition layer at the margins of the restoration, cover the margins with a glycerin gel before final light-curing procedure.

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G-CEM™ Veneer LICHTHARTEND ADHESIEF KUNSTSTOFFZEMENT

Nur zur Verwendung durch zahnärztliches Fachpersonal gemäß den Anwendungshinweisen.

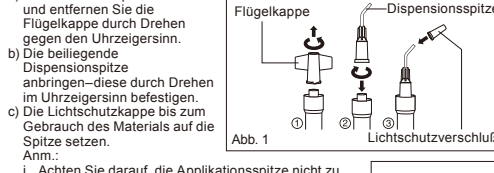
INDICATIONS
Adhäsive Befestigung von Keramik- und Composite-Veneers, Inlays und Onlays (< 2.0 mm) und einer Transluzenz welche die komplette Lichthardt des Zementes ermöglicht.

GEGENANZEIGEN
1. Direkte Pulpaexposition
2. Dieses Produkt darf nicht an Patienten verwendet werden, die eine Allergie gegen Methylmethacrylat oder Methacrylatpolymer haben.

PRODUKT-BESCHREIBUNG
G-CEM Veneer ist ein lichthartend, röntgensichtbarer Befestigungskunststoff, der intraoral verwendet und gemäß ISO-Norm 4049 Typ 2 und Klasse 2 (Gruppe 1) klassifiziert ist.
Dieses Material hat eine Röntgenopazität, die 2,5 bis 3,0 mm Aluminium entspricht (Dichte = 1 mm, Emaille = 2 mm).
Die Partikelgröße des anorganischen Füllstoffs beträgt 0,1 bis 0,5 µm. Die Gesamtmenge an anorganischem Füllstoff beträgt ca. 46 Vol.-%.

ZUSAMMENSETZUNG
Bariumglas, Initiator, Pigment, Siliziumdioxid, Stabilisator

SO VERWENDET SIE DIE TRY-IN PASTE VON G-CEM VENEER
a) Halten Sie die Spritze aufrecht und entfernen Sie die Flügelschleife durch Drehen gegen den Uhrzeigersinn.
b) Befestigen Sie die Flügelschleife an der Spritze.
c) Drehen Sie die Spritze um 90 Grad, bis die Flügelschleife an der Spritze sitzt.
d) Entfernen Sie die Spritze vorsichtig und drücken Sie die Flügelschleife gegen den Uhrzeigersinn.
e) Entfernen Sie die Spritze vorsichtig und drücken Sie die Flügelschleife gegen den Uhrzeigersinn.
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z) Entfernen Sie die Spritze vorsichtig und drücken Sie die Flügelschleife gegen den Uhrzeigersinn.



NOTE:
Achten Sie darauf, die Applikations Spitze nicht zu fest zu ziehen, da sonst das Gewinde beschädigt werden könnte. Um eine dichte Verbindung zu garantieren, vergewissern Sie sich, dass das Gewinde frei von Restmaterial ist.
ii. Um eine dichte Verbindung zu gewährleisten, drücken Sie den Spritzenkolben sanft mit der Handfläche auf die Flügelschleife, bis die Flügelschleife an der Spritze sitzt.
iii. Entfernen Sie das Material nicht heraustrückend, sondern Sie die Spritze vorsichtig und drücken Sie die Flügelschleife gegen den Uhrzeigersinn.
iv. Entfernen Sie die Spritze vorsichtig und drücken Sie die Flügelschleife gegen den Uhrzeigersinn.
v. Nach der Benutzung schneidmässig die Dispensenspitze entfernen und die Spritze mit der Flügelschleife verschließen.

BEFESTIGUNG VON VENEERS, INLAYS, ONLAYS
1. ANPROBE DER RESTAURATION
a) Entfernen Sie die temporäre Restauration und reinigen Sie den präparierten Zahn gründlich mit einem weichen Zahnbürste und Bürsting, um Restreste von Zement zu entfernen. Reinigen Sie den präparierten Zahn mit Wasser.
b) Prüfen Sie Passung, Farbtön und Okklusion der definitiven Restauration.
c) Falls notwendig, verwenden Sie G-CEM Try-In Paste für die Anprobe.

SO VERWENDET SIE VON G-CEM TRY-IN PASTE
i. Halten Sie die Spritze aufrecht und entfernen Sie die Flügelschleife durch Drehen gegen den Uhrzeigersinn.
ii. Befestigen Sie die Flügelschleife an der Spritze durch Drehen gegen den Uhrzeigersinn.
iii. Drehen Sie die Spritze um 90 Grad, bis die Flügelschleife an der Spritze sitzt.
iv. Entfernen Sie die Spritze vorsichtig und drücken Sie die Flügelschleife gegen den Uhrzeigersinn.
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1. In case of contact with oral tissue or skin, remove immediately with cotton or sponge soaked in alcohol. Flush with water. To avoid contact, a rubber dam or COCCA BUTTER can be used to isolate the operation field from the skin or oral tissue.
2. In case of contact with eyes, flush immediately with water and seek medical attention.
3. Take care to avoid ingestion of the material.
4. Do not mix with other similar products.
5. Dispensing tips should be used only, to prevent cross contamination between patients, do not reuse the dispensing tip. The dispensing tip cannot be sterilized in an autoclave or chemically.
6. Wear plastic or rubber gloves during operation to avoid direct contact with air inhibited resins in order to prevent possible sensitization.
7. Wear protective eyeglasses during light curing.
8. When polishing the polymerized material, use a dust collector and wear a dust mask to avoid inhaling particles.
9. Avoid getting material on clothing.
10. In case of contact with unintended areas of tooth or prosthetic appliances, remove with instrument, sponge or cotton pellet before light-curing.

2. In case of use G-CEM Veneer in combination with eugenol containing materials as eugenol may inhibit polymerization. Do not use G-CEM Veneer in combination with substances like hydrogen peroxide (H₂O₂) as H₂O₂ may hinder G-CEM Veneer from setting or bonding properly.

3. Do not use G-CEM Veneer in the detection mode in order to identify any remnants of excess cement or to remove the excess cement using a probe or another appropriate instrument. Residual cement may be removed using a good combination depends on the light curing unit being used. It is important to find the best combination of time, intensity, and distance of the light curing in use.

NOTE:
i. The effective wavelength range of each dental curing unit must cover 450-480 nm. ii. To avoid the oxygen inhibition layer at the margins of the restoration, cover the margins with a glycerin gel before final light-curing procedure.

5. FINAL POLISHING
Polish the restoration margins using appropriate instruments for the polishing of composite resins.
SHADES
Translucent, A2, Bleach, Opaque

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