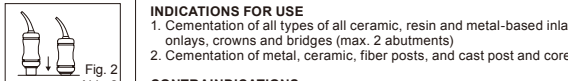




G-CEM™ CAPSULE

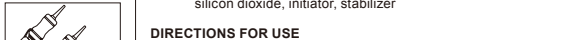
SELF-ADHESIVE LUTING CEMENT IN CAPSULES

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



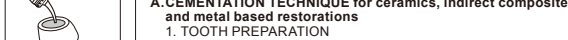
INDICATIONS FOR USE

1. Cementation of all types of all ceramic, resin and metal-based inlays, onlays, crowns and bridges (max. 2 abutments)
2. Cementation of metal, ceramic, fiber posts, and cast post and cores.



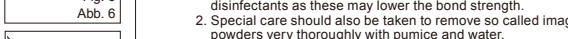
CONTRAINDICATIONS

1. Direct pulp capping.
2. Avoid use of this product in patients with known allergies to glass ionomer cement, methacrylate or polyacrylic acid resin.



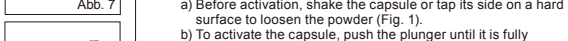
COMPOSITION

Powder: Fluoro-alumino-silicate glass, initiator, pigment
Liquid: Dimethacrylate, 4-MET, water, phosphoric acid ester monomer, silicon dioxide, initiator, stabilizer



DIRECTIONS FOR USE

Powder / Liquid Ratio (g/g)	0.35 / 0.15
Mixing Time (sec.)	10"
Working Time (23°C/73°F) (min., sec.)	2'30"

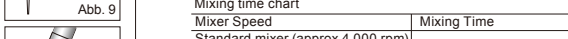


A. CEMENTATION TECHNIQUE FOR CERAMICS, INDIRECT COMPOSITES AND METAL RESTORATIONS

1. TOOTH PREPARATION

- a) Prepare tooth in usual manner. For pulp capping, use calcium hydroxide cement.
- b) Clean the prepared tooth with pumice and water.
- c) Rinse thoroughly with water. Dry by gently blowing with oil free air.

Prepared surfaces should appear dry.



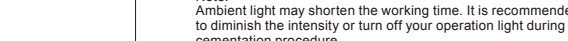
2. REFRIGERATE G-CEM CAPSULE TO EXTENDING WORKING TIME

Make sure that the restoration is pretreated and handled according to the manufacturer's instructions.



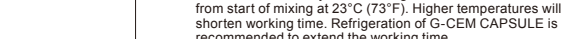
3. CAPSULE ACTIVATION AND MIXING

- a) Beforehand, make the capsule and tip its side on a hard surface to loosen the powder (Fig. 1).
- b) To activate the capsule, press the plunger until it is fully depressed with the main body and hold it down for 2 seconds (Fig. 2).
- c) Ensure the plunger is fully pressed to avoid the incorrect mixing ratio of powder to liquid.



4. DISPENSING

- a) Immediately remove the mixed capsule from the mixer and load the G-CEM CAPSULE into the capsule (Fig. 4) or allow the cement to self-cure until the excess cement feels rubbery.
- b) Light cure each surface for 10 seconds (light surface from occlusal: 10 seconds, any other surfaces: 10 seconds each) or allow the cement to self-cure for 4 minutes after seating of the restoration.



5. CEMENTATION

- a) Coat the internal surface of the restoration with sufficient cement (Fig. 5) immediately. The working time is 2 minutes 30 seconds from start of mixing at 23°C (73°F). Higher temperatures will shorten working time. If the G-CEM CAPSULE is recommended to extend the working time.
- b) Maintain moderate pressure.
- c) EXCESS CEMENT REMOVAL
To remove excess cement, light cure using a visible light curing unit (LED) for 2-4 seconds (Fig. 6) or allow the cement to self-cure until the excess cement feels rubbery.
- d) Light cure each surface for 10 seconds (light surface from occlusal: 10 seconds, any other surfaces: 10 seconds each) or allow the cement to self-cure for 4 minutes after seating of the restoration.

6. FINISH AND POLISH

- a) G-CEM CAPSULE is a dual cure cement. To insure proper curing involving cementation of the following restorations: CERAMIC CAPSULE must be light cured for 2 minutes for 4 minutes. Metal, metal coping restorations Restorations with metal and opaque surfaces Translucent metal veneer restorations greater than 2mm in thickness
- b) Finish and polish margins with appropriate instruments.

7. CEMENTATION TECHNIQUE FOR METAL, FIBERGLASS AND CERAMIC POSTS

- a) Prepare the post according to manufacturer's instructions. The post space should be cleaned, rinsed and dried thoroughly using paper points. The post space should be dry.
- b) NOTE: Eucalyptol hypochlorite solution is recommended to use for the chemical cleaning of the post space.
- c) Do not use H₂O (hydrogen peroxide) to chemically clean the post space as it may lower the bond strength.

8. POST PREPARATION

Make sure that the post is pretreated and handled according to the manufacturer's instructions.

9. CAPSULE ACTIVATION AND MIXING

10. DISPENSING & CEMENTATION

- a) Refrigerate G-CEM CAPSULE to extend working time.
- b) Immediately remove the mixed capsule from the mixer and load the G-CEM CAPSULE into the capsule (Fig. 4) or allow the cement to self-cure until the excess cement feels rubbery.
- c) Do not attach the tip on other capsules. Immediately place the capsule with the elonator on the capsule (Fig. 4).
- d) Click twice to prime the capsule (Fig. 4). To adjust the direction of the nozzle, hold the applicator with the capsule towards you and turn the capsule body.
- e) Immerse the tip deep in the post space and start extruding the cement within 45 seconds from first of mix. Keep the tip immersed in the cement whilst dispensing to avoid trapping air bubbles.
- f) NOTE: Ambient light may shorten the working time. It is recommended to diminish the intensity or turn off your operation light during the cementation procedure.
- g) Insert the post immediately into the post space within 1 minute after cement application.
- h) The oral temperature accelerates the setting reaction of the cement.
- i) Do NOT use lentulo spirals to place the cement in the post space as this may shorten working time.
- j) To remove the used capsule, push the applicator release button.
- k) Twist the capsule and pull upwards.

11. EXCESS CEMENT REMOVAL

- a) Continue to maintain moderate pressure while removing excess cement with appropriate instruments.
- b) Light cure all surfaces for 20 seconds or allow the cement to self-cure for 4 minutes after seating of the post (Fig. 10).

12. STORAGE

Recommended for optimal performance, store in a cool and dark place (4-25°C / 39-77°F). Do not remove capsule from its original aluminium pouch until ready for use.

13. SHADES

A2 (Vita® shade), A03 (opaque), B01 (opaque) and Translucent Vita® is a registered trademark of Vita Zahnfabrik, Bad Säckingen, Germany.

14. PACKAGE

1. Single shade package: 50 capsules
2. Assorted package: 50 capsules (20 each of A2 and Translucent, 5 each of A03 and B01)
3. Average contents per capsule: 0.35 g powder and 0.15 g (0.14 mL) liquid
4. Minimum net volume of mixed cement per capsule: 0.17 mL
5. G-CEM CAPSULE APPLIER: 1 piece
6. G-CEM CAPSULE Elongation Tip: 50 pieces

15. CAUTION

1. In case of contact with oral tissue or skin, remove immediately with a sponge or cotton soaked in alcohol. Wash with water. To avoid contact, a rubber dam and/or COCOA 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. If the tissue contacted by the material turns white or forms a blister, advise the patient to leave the affected area undisturbed, until the mark disappears, usually in 1-2 weeks.
4. Do not use G-CEM CAPSULE in combination with eugenol containing materials as eugenol may hinder G-CEM CAPSULE from setting or bonding properly.
5. Use a protective light shield or similar protective eye wear during light curing.
6. This product is not indicated for filling or core build-up.
7. When using G-CEM CAPSULE Elongation Tip with a cotton soaked with alcohol, prevent the alcohol from entering the inside of the tip. G-CEM CAPSULE Elongation Tip for single use only and cannot be autoclaved or chemically disinfected.
8. In rare cases the product may cause sensitivity in some people. If any such reactions are experienced, discontinue the use of the product and refer to a physician.
9. Personal protective equipment (PPE) such as gloves, face masks and safety glasses should always be worn.

Some products referenced in the present IFU may be classified as hazardous according to GHS. Always familiarize yourself with the safety data sheets available at:

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Undesired effects - Reporting: If you experience any kind of undesired effect, reaction or similar events experienced by use of this product, including those not listed in this instruction for use, please contact your G-CEM CAPSULE distributor, your local regulatory authority or your national vigilance system, by selecting the proper authority of your country accessible through the following link: https://ec.europa.eu/growth/sectors/medical-devices/contacts_en as well as our internal vigilance system: vigilance@gc-dental

If you wish you will contribute to improve the safety of this product. UK responsible Person: GC UNITED KINGDOM Ltd. COOPERS COURT Newport Pagnell, Buckinghamshire, MK16 1BS Kingdom

Last revised: 07/2025



G-CEM™ CAPSULE

SELBSTHAFTENDER BEFESTIGUNGSEMENT IN KAPSELFORM

Nur zur Verwendung durch zahnärztliches Fachpersonal gemäß den Anweisungen und Weisungen.

INDICATIONS ZUR ANWENDUNG

1. Befestigung von allen Metall-, keramik- oder keramikstoffbasierten Inlays, Onlays, Kronen und Brücken (max. 2 Abutments)
2. Zementation von Metall-, Keramik-, Glasfaserstrahlen, und gegossenen Stiften und Stiftaufbauten.

CONTRAINDICATIONS

1. Direkte Pulpaabdeckung.
2. Vermeiden Sie die Verwendung dieses Produkts bei Patienten mit bekannten Allergien gegen Glasionomer-Zementen, Methacrylate Monomer oder Methacrylate Polymer.

ZUSAMMENSETZUNG

Pulver: Fluor-Aluminium-Silikatglas, Initiator, Pigment
Flüssigkeit: Dimethacrylat, 4-MET, Wasser, Phosphorsäureester-Monomer, Silikon Dioxid, Initiator, Stabilisator

VERLENDUNG

Powder / Flüssigkeitsverhältnis (g/g)	0,35 / 0,15
Mischzeit (Sek.)	10"
Verarbeitungszeit (23°C/73°F) (Min., Sek.)	2'30"

A. ANWENDUNG FÜR KERAMIK, INDIKRETE KOMPOSITE UND METALLRESTAURATIONEN

1. PRÄPARATION DES ZAHNES

- a) Die Präparation des Zahnes ist üblich durchzuführen. Zur Pulpaabdeckung Calciumhydroxid verwenden.
- b) Den präparierten Zahn gründlich reinigen.
- c) Reinigen Sie die Zahnoberfläche mit einem freieren Luft trocken – die präparierten Oberflächen müssen trocken erscheinen.

HINWEIS: 1. Benutzen Sie keine Substanzen wie H₂O (Wasserstoffperoxid) und/oder Desinfektionsmittel, da diese die Haftvermögen reduzieren können.

- a) Besondere Sorgfalt sollte darauf gelegt werden sogenannte Klebeflächen mit Bismutiten und Phosphorsäure-Wasser zu entfernen, da diese die Haftung beeinträchtigen können.

2. PRÄPARATION DER RESTAURATION

Stellen Sie sicher, daß die Restauration gem. den Herstellerangaben vorbereitet und sauber ist.

3. AKTIVIEREN UND ANMISCHEN DER KAPSEL

- a) Vorhand, machen Sie die Kapselform und der Seite auf eine harte Oberfläche klopfen um das Pulver zu lösen (Abb. 1).
- b) Um die Kapselform zu aktivieren den Kolben drücken bis dieser vollständig in die Kapselform und 2 Sekunden halten (Abb. 2).

- 1) Sicherstellen, dass der Kolben vollständig gedrückt ist um fehlerhaftes Anmischen von Pulver und Flüssigkeit zu vermeiden.
- 2) Die Kapselform sollte vor Anmischen aktiviert und sofort verwendet werden.

4. SOFORT IN DIE KAPSELBRÜCKE GEBEN (ODER EINEN MALGAMANSCHER) UND VERLENDEN (MIT 4.000 RPM) (Fig. 3). Weitere Informationen bezüglich der Mischzeiten finden Sie in folgender Tabelle:

Mischezeit	Mischzeit
Tabelle für die Anmischzeiten	Mischzeit
Standard Mischer (approx. 4000 rpm)	10 Sekunden
High speed mixer (over 4.500 rpm)	10 Sekunden
Rotational mixer (Standard Mischer (ca. 4000 rpm)	10 Sekunden
Centrifuge option	10 Sekunden

Note: Refer to the respective manufacturer's instructions for use.

5. DISPENSING

- a) Immediately remove the mixed capsule from the mixer and load the G-CEM CAPSULE into the capsule (Fig. 4) or allow the cement to self-cure until the excess cement feels rubbery.
- b) Light cure each surface for 10 seconds (light surface from occlusal: 10 seconds, any other surfaces: 10 seconds each) or allow the cement to self-cure for 4 minutes after seating of the restoration.

6. FINISH AND POLISH

- a) G-CEM CAPSULE is a dual cure cement. To insure proper curing involving cementation of the following restorations: CERAMIC CAPSULE must be light cured for 2 minutes for 4 minutes. Metal, metal coping restorations Restorations with metal and opaque surfaces Translucent metal veneer restorations greater than 2mm in thickness
- b) Finish and polish margins with appropriate instruments.

7. CEMENTATION TECHNIQUE FOR METAL, FIBERGLASS AND CERAMIC POSTS

- a) Prepare the post according to manufacturer's instructions. The post space should be cleaned, rinsed and dried thoroughly using paper points. The post space should be dry.
- b) NOTE: Eucalyptol hypochlorite solution is recommended to use for the chemical cleaning of the post space.
- c) Do not use H₂O (hydrogen peroxide) to chemically clean the post space as it may lower the bond strength.

8. POST PREPARATION

Make sure that the post is pretreated and handled according to the manufacturer's instructions.

9. CAPSULE ACTIVATION AND MIXING

10. DISPENSING & CEMENTATION

- a) Refrigerate G-CEM CAPSULE to extend working time.
- b) Immediately remove the mixed capsule from the mixer and load the G-CEM CAPSULE into the capsule (Fig. 4) or allow the cement to self-cure until the excess cement feels rubbery.
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- b) Light cure all surfaces for 20 seconds or allow the cement to self-cure for 4 minutes after seating of the post (Fig. 10).

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Last revised: 07/2025



G-CEM™ CAPSULE

CIMENT DE SCÉLLEMENT AUTOADHÉSIF EN CAPSULES

A utiliser uniquement par un professionnel dentaire et dans le respect du mode d'emploi.

INDICATIONS

1. Scellement de tout type d'inlays, onlays, couronnes et bridges tout céramique, à base de métal ou de résine (max. 2 piliers).
2. Scellement des tenons férus, métal et céramique et des inlays core constructeur de multiples.

CONTRAINDICATIONS

1. Incapacitation directe della polpa
2. Evitare l'utilizzazione di ce produit chez des patients souffrant d'allergies connues au verre ionomère, au monomère méthacrylate ou au polymère méthacrylate.

COMPOSITION

Poudre: Verre fluoro-alumino-silicate, initiateur, pigment
Liquide: Diméthacrylate, 4-MET, eau, monomère d'ester de acido fosforico, dióxido de silicio, iniciador, estabilizador

VERLENDUNG

Powder / Flüssigkeitsverhältnis (g/g)	0,35 / 0,15
Mischzeit (Sek.)	10"
Verarbeitungszeit (23°C/73°F) (Min., Sek.)	2'30"

A. TECHNIQUE DE SCÉLLEMENT POUR céramique, restaurations indirectes composites et à base de métal

1. PRÉPARATION DE LA DENT

- a) Préparer la dent de façon habituelle. Pour un collage pulpaire, utiliser un oxyde de zinc phosphate ou un ciment adhésif délicate.
- b) Nettoyer la dent préparée avec de la ponce et de l'eau.
- c) Activer soigneusement la dent: séchez doucement avec de l'air propre sans trace d'huile. Les surfaces préparées doivent apparaître sèches.

NOTE: 1. Ne pas utiliser d'H₂O (péroxyde d'hydrogène + eau oxygénée) et/ou des désinfectants ou produits de nettoyage à forte force adhésive.

2. PRÉPARATION DU RESTAUR

Une attention particulière devra être portée au rinçage approprié à l'eau et à la ponce des surfaces pour un nettoyage adéquat.

3. ACTIVATION ET MÉLANGE DE LA CAPSULE

- a) Afin d'activer la capsule, appuyer sur le piston jusqu'à ce qu'il soit complètement immergé dans la capsule et le laisser vers le bas pendant 2 secondes (Fig. 1).
- b) Afin d'activer la capsule, appuyer sur le piston jusqu'à ce qu'il soit complètement immergé dans la capsule et le laisser vers le bas pendant 2 secondes (Fig. 1).

NOTE: 1) S'assurer que le piston est entièrement immergé afin d'éviter un ratio de mélange incorrect entre la poudre et le liquide.

4. SOFORT IN DIE KAPSELBRÜCKE GEBEN (ODER EINEN MALGAMANSCHER) UND VERLENDEN (MIT 4.000 RPM) (Fig. 3). Weitere Informationen bezüglich der Mischzeiten finden Sie in folgender Tabelle:

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Rotational mixer (Standard Mischer (ca. 4000 rpm)	10 Sekunden
Centrifuge option	10 Sekunden

Note: Refer to the respective manufacturer's instructions for use.

5. DISPENSING

- a) Immediately remove the mixed capsule from the mixer and load the G-CEM CAPSULE into the capsule (Fig. 4) or allow the cement to self-cure until the excess cement feels rubbery.
- b) Light cure each surface for 10 seconds (light surface from occlusal: 10 seconds, any other surfaces: 10 seconds each) or allow the cement to self-cure for 4 minutes after seating of the restoration.

6. FINISH AND POLISH

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8. POST PREPARATION

Make sure that the post is pretreated and handled according to the manufacturer's instructions.

