

G-aenial® LIGHT-CURED RADIOPAQUE COMPOSITE RESTORATIVE

For use only by a dental professional in the recommended indications.
RECOMMENDED INDICATIONS
A.G-aenial ANTERIOR
1. Direct restorative for Class III, IV, V cavities.

B.G-aenial POSTERIOR
1. Direct restorative for Class I and II cavities.
CONTRAINDICATIONS
1. Pulp capping.

DIRECTIONS FOR USE
1. Shade Selection
Clean the tooth with pumice and water. Shade selection should be made prior to isolation. Select the appropriate G-aenial shades by referring to the G-aenial shade guide.

2. Cavity Preparation
Prepare cavity using standard techniques. Dry by gentle blowing with oil free air.
Note:
For pulp capping, use calcium hydroxide.

3. Bonding Treatment
For bonding G-aenial to enamel and/or dentin, use a light-cured bonding system such as G-aenial® Bond, G-Premio BOND, G-BOND®, GC Fuji Bond LC or UniFil Bond (Fig. 1).

4. Placement of G-aenial
1) Dispensing from a Unitip
Insert the G-aenial Unitip into the Unitip APPLIER and extrude material directly into the prepared cavity.

2) Dispensing from a Syringe
Remove syringe cap and dispense material onto a mixing pad. Place the material into the cavity using a suitable placement instrument.

3. After dispensing, avoid too long exposure to ambient light. Ambient light can shorten the manipulation time.

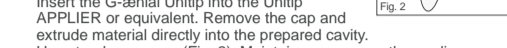
Clinical Highlights
1. Anterior cavities
a. In the case of small cavities
Restore using a one shade layering technique.

b. In the case of large cavities
In most cases a multi shade layering technique will give the best aesthetic results.

2. Posterior cavities
a. In the case of small cavities
Restore using a one shade layering technique.

b. In the case of deep cavities
Place a flowable composite such as G-aenial® Flo X, GRADIA® DIRECT Flo or GRADIA® DIRECT LoFlo® on the cavity floor.

Examples of Clinical Applications (Clinical Hint No. 1, 2)



Shade combination chart for multiple layers in large cavities of anterior teeth (1-1)

Table with 12 columns (A1-A4, B1-B4, C1-C4) and 4 rows (Inside special, Standard, Outside special, JE, AE, AE, AE).

5. Contouring before Light Curing
Contour using standard techniques.

6. Light Curing
Light cure G-aenial using a light curing unit (Fig. 3).

7. Finishing and Polishing
Finish and polish using diamond burs, polishing points and discs.

SHADES
1. 22 shades for anteriors
Standard shade : XBW (Extra Bleaching White), BW (Bleaching White), A1, A2, A3, A3.5, A4, B1, B2, B3, C3, CV (Cervical), CVD (Cervical Dark)

2. 6 shades for posteriors
Standard shade : P-A1, P-A2, P-JE, P-E (Incisal)
Note:
1. Material should be placed and light cured in layers.

2. Lower light intensity may cause insufficient curing or discoloration of the restorative material.

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G-aenial® LICHTHÄRTENDES RÖNTGENSICHTBARES KOMPOSIT FÜR RESTAURATIONEN

Zur Verwendung nur durch einen Zahnmediziner und -innen für die empfohlenen Indikationen.
EMPFÖHLENE INDIKATIONEN
A.G-aenial ANTERIOR
1. Direkte Restaurationen von Kavitäten der Klassen III, IV und V.

B.G-aenial POSTERIOR
1. Direkte Restaurationen von Kavitäten der Klassen I und II.
GEGENANZEIGEN
1. Pulpaabdeckung.

ANWENDUNG
1. Schattenselektion
Reinigen Sie das Zahnfleisch mit Zahnpasta und Wasser. Die Schattenselektion sollte vor der Isolierung des Zahns erfolgen.

2. Höhlenaufbereitung
Bereiten Sie die Höhle mit einem geeigneten Mittel und Wasser vor. Die Farbauswahl sollte vor dem Isolieren des Zahns erfolgen.

3. Klebung
Für die Klebung von G-aenial auf Enamel und/oder Dentin, verwenden Sie ein lichthärtendes Klebsystem wie G-aenial® Bond, G-Premio BOND, G-BOND®, GC Fuji Bond LC oder UniFil Bond (Abb. 1).

4. Einbringen von G-aenial
1) Einbringen von G-aenial mit dem Unitip
Stecken Sie den G-aenial Unitip in den Unitip APPLIER und extrudieren Sie das Material direkt in die vorbereitete Höhle.

2) Einbringen von G-aenial mit einer Spritze
Entfernen Sie die Spritzenkappe und geben Sie das Material auf eine Mischungstafel ab. Bringen Sie das Material in die Höhle mit einem geeigneten Instrument ein.

3. Nach dem Einbringen des Materials vermeiden Sie jegliche Umgebungslichtexposition. Umgebungslicht kann die Aushärtung des Materials verkürzen.

Klinische Hinweise
1. Frontzahnkavitäten
a. Kleine Kavitäten
Restauration mit der Einschiebetechnik. In den meisten Fällen ist die Benutzung eines Standardfarbens in der Einschiebetechnik anzuraten.

b. Große Kavitäten
Der Grund der Kavität mit einem fließfähigen Komposit wie G-aenial® Flo X, GRADIA® DIRECT Flo oder GRADIA® DIRECT LoFlo® auf dem Kavitätengrund auftragen.

2. Backenzahnkavitäten
a. Kleine Kavitäten
Restauration mit der Einschiebetechnik. In den meisten Fällen ist die Benutzung eines Standardfarbens ausreichend.

b. Große Kavitäten
Der Grund der Kavität mit einem fließfähigen Komposit wie G-aenial® Flo X, GRADIA® DIRECT Flo oder GRADIA® DIRECT LoFlo® auf dem Kavitätengrund auftragen.

Farbkombinationstabelle f. d. Mehrschichttechnik bei großen Kavitäten im Frontzahnbereich (1-1)

Table with 12 columns (A1-A4, B1-B4, C1-C4) and 4 rows (Inside special, Standard, Outside special, JE, AE, AE, AE).

5. Umformung vor dem Lichthärten
Die Umformung der Restauration erfolgt wie gewohnt.

6. Lichthärten
Licht härten von G-aenial erfolgt mit einem Lichthärtungsgerät (Abb. 3).

7. Feinbearbeitung und Polieren
Feinbearbeiten und polieren Sie mit Diamantschleifen und Polierspitzen bzw. -schleifen.

FARBEN
1. 22 Farben Anterior
Standardfarben: XBW (Extra Bleaching White), BW (Bleaching White), A1, A2, A3, A3.5, A4, B1, B2, B3, C3, CV (Cervical), CVD (Cervical Dark)

2. 6 Farben Posterior
Standardfarben: P-A1, P-A2, P-JE (Incisal), P-E (Incisal)
Note:
1. Das Material sollte schichtweise verarbeitet und gehärtet werden.

2. Eine geringere Lichtintensität beim Polymerisieren kann zu unzureichender Aushärtung oder Verformung des Materials führen.

3. Feinieren und Polieren
Mit Diamantschleifen und Polierspitzen bzw. -schleifen feineren und polieren.

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LICHTHARDEND RADIOPAAK RESTAURATIECOMPOSIT

Aleen te gebruiken in de vermelde toepassingen door tandheelkundig gekwalificeerden.

### AANBEVOLEN TOEPASSINGEN

A. G-aenial ANTERIOR  
1. Directe restauraties in Klasse III, IV en V caviteiten.  
2. Directe restauraties in klasse II caviteiten en bij wortelcaries.  
3. Til directe restauraties voor veneers en het sluiten van diastema.

B. G-aenial POSTERIOR  
1. Directe restauraties in Klasse I en II caviteiten.

### CONTRA-INDICATIES

1. Pulpa-overkapping.  
2. In enkele zeldzame gevallen kan het product bij bepaalde personen overgevoeligheid veroorzaken. Indien dergelijke reacties optreden, gebruik het product dan niet langer en raadpleeg een arts.

### GEbruiksAANWIJZING

1. Kleurselectie.  
Folieg het element met pulpmsteen en water. Maak een kleurselectie alvorens het element te isoleren. Selecteer de juiste G-aenial kleuren met behulp van de G-aenial kleurengids.

2. Caviteitspreparatie.  
Präpareer de caviteit met standaardtechnieken. Droog voorzichtig door te blazen met levend lucht.

Opmerking:  
Gebruik calciumhydroxide voor pulpa-overkapping.

3. Aantrengen van een binding.  
Om G-aenial aan zwaar glaszuur als dentine te hecht ten gebruikt men een lichthardend bondingstelsel zoals G-aenial® Bond, G-Prémio BOND, G-BOND®. GC Fuji Bond LC of UniFil Bond (Fig. 1). Volg de instructies van de fabrikant.

4. Het aantrengen van G-aenial  
1) Aantrengen vanuit een Unipit  
Bring de G-aenial Unipit aan in het Unipit pistool of in een gelijksoortig instrument. Verwijder het dopje en spuit het materiaal met gelijkmatige druk direct in de geprepareerde caviteit (Fig. 2). Handhaaf de druk totdat de druppel uit het pistool verwijd uit de mond verwijderd. Dit voorkomt dat de Unipit uit het pistool valt.

2) Aantrengen vanuit een spatule  
Verwijder het dopje van het spatule en spuit materiaal op een mengblokje. Breng het materiaal in de caviteit met een daarvoor geschikt instrument. Na het extruderen de plunjur van het spatule een reë slag tegen de kook in terug draaien om naarvora warm te maken en de viscositeit te verminderen. Herlaats het dopje direct na gebruik.

Opmerking:  
1. Normaal, kan voor het verknigen van een esthetische restauratie materiaal in een speciale laag met gebruik van Standard Kleuren worden aangebracht. Raadpleeg de klinische adviezen voor meer details.  
2. Extruderen van het materiaal kan lastig zijn, indien het koel werd bewaard. Laat het materiaal een aantal minuten op kamertemperatuur komen, alvorens het te verwerken.  
3. Voorkom dat ge-extrudeerd materiaal te lang aan licht wordt blootgesteld. Licht kan de verwerkingsijd aanzienlijk verkorten.

### Klinische adviezen

1. Anterieure caviteiten  
a. In het geval van kleine caviteiten  
Restaurator door middel van de laagste mogelijke opbouwtechniek met een enkele kleur. In de meeste gevallen zal het gebruik van een enkele Standard Kleur voldoende zijn. In die gevallen waarbij een hogere graad van translucentie is gewenst, kan voor één van de "Outside special" kleuren worden gekozen. Zie ook de voorbeelden van klinische applicaties.

b. In het geval van grote caviteiten  
Restauratie van grote caviteiten kan meerdere laagstechniek de beste esthetische resultaten geven. Om het doorschijnen van een orale caviteit te voorkomen of om verkleurd dentine te maskeren, wordt een geschikte "inside special" kleur geselecteerd samen vervolgens verder wordt opgebouwd met een Standard Kleur.

Om een restauratie meer natuurlijk te maken, bijvoorbeeld om aan leeftijd gerelateerde nuances te kopiëren, zou de afwerking aan "Outside special" kleuren worden toegevoegd. Zie ook de voorbeelden van klinische applicaties en / of raadpleeg de Kleuren Combinatie Kaart.

2. Posteriore caviteiten  
a. In het geval van kleine caviteiten  
Restauratie door middel van de laagstechniek met een enkele kleur. In de meeste gevallen zal het gebruik van één enkele Standard Kleur voldoende zijn. In die gevallen waarbij een hogere graad van translucentie is gewenst, kan voor één van de "Outside special" kleuren worden toegevoegd. Zie ook de voorbeelden van klinische applicaties.

b. In het geval van diepe caviteiten  
Bring een "flowable" composit zoals G-aenial® Flo X, GRADIA® DIRECT Flo of GRADIA® DIRECT LoFlo™ aan op de bodem van de caviteit. Breng daarna een Standard Kleur aan. Volg de afwerking aan "Outside special" kleur om een optimale esthetiek te verkrijgen. Zie ook de voorbeelden van klinische applicaties.

\*GC Fuji LINING® PASTE PAK, GC Fuji LINING® LC of GC Fuji IX GP kunnen zowel als liner als ook als onderlaag worden gebruikt. Zie de respectievelijke gebruiksaanwijzingen.

### Voorbeelden van klinische applicaties (Klinische adviezen No. 1, 2)

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