The Art of Restorative Treatment

Smart Solutions from GC for all your Clinical Challenges
How to choose the optimal restorative material?

Today more than ever, many types of restorative materials are available on the market and it becomes more and more challenging to determine which one is the most appropriate to use in each clinical situation.

What are the most important characteristics of a restorative material?

- Strength?
- Aesthetics?
- Speed?
- Biocompatibility?
- ...

What are the key patient & case-related factors to take into consideration?

- Isolation?
- Patient compliance?
- Carious risk?
- Aesthetic demand?
- ...

How to reach the top of clinical success?
Discover GC’s innovative solutions for all your restorative challenges

Since its foundation, GC has always had a strong focus on the development of innovative restorative materials to fit each clinical situation.

Almost a hundred years down the line, GC is proud to display a full portfolio of restorative products and to be able to guide you through...

GC Smart Solutions for all your clinical challenges.
Which **restorative material**…

- **High caries risk?**
- **Less cooperative patients?**
- **Temporisation solution needed?**
- **No perfect isolation possible?**
- **Moderate aesthetic demand or affordable solution needed?**

Choose a **Glass Ionomer**

Choose a **Glass**

**Courtesy of Dr Hervé Tassery, France (1), Dr Jamie Lucas, Australia (2), Dr Patrick Rouas, France (3), Dr Raimond van Duinen, The Netherlands (4) & Dr Stanislaw Lassociński, Poland (5)**
...for which **clinical situation**?

- Long-term solution needed?
- Good isolation possible?
- High aesthetic demand?
- High strength required?

Choose a **Composite**

Courtesy of Prof. Ivana Miletic, Croatia (6), Dr. Javier Tapia Guadix, Spain (7, 8) & Prof. Marleen Peumans, Belgium (9)
Restorations are our Legacy

GC’s Glass Ionomers

- Fuji II LC
- Fuji TRIAGE
- Fuji IX family
- Fuji VIII GP
- Conditioners
The unique advantages of glass ionomers

Glass ionomers are moisture-tolerant

The use of a rubber dam is optional when restoring a tooth using a glass ionomer, as these materials can tolerate moisture. This is a big advantage for subgingival cases or those requiring a short procedure time.

Glass ionomers chemically bond to tooth

Glass ionomers chemically bond to natural teeth, without the use of any adhesive or primer. From young aprismatic enamel up to old sclerotic dentin, a durable marginal seal and an optimal longevity are ensured.

Glass ionomers are tooth-friendly

Glass ionomers can be used in the partial caries excavation technique, helping to create minimally invasive preparations. As no etching is used, there is no risk of post-operative sensitivity – which also makes glass ionomers a safe treatment solution.

GC’s Glass Ionomers

- Fuji II LC
- Fuji TRIAGE
- Fuji IX family
- Fuji VIII GP
- Conditioners
**GC Fuji® II LC**
Light-cured resin-modified glass ionomer restorative

**Simple technique – Beautiful long-lasting results**

**Key advantages**

- Controlled setting with the light for a straightforward & simple procedure
- Excellent aesthetics & translucency
- Outstanding proven clinical performance
- Ideal for cervical erosion / abfractions, root surface restorations & pedodontics
- Also optimal in the closed & open sandwich technique
- High chemical adhesion for a perfect marginal integrity

**Delivery**

- Capsule
- Powder/Liquid

**Shade Range**

- A1, A2, A3, A3.5, A4, B2, B3, B4, C2, C4, D2

„Fuji II LC is a very good material when isolation of the cavity is challenging, like for pediatric or geriatric cases. Fuji II LC also bonds optimally to dentin – even if sclerotic – making it a good choice for class V restorations, especially those caused by abrasion.“
Dr Martin Hoftvedt, Norway

**Restoration of cervical erosions using Fuji II LC**

**Restoration of Class III pedodontic cavities using Fuji II LC**

Courtesy of Dr Geoff Knight, Australia

Courtesy of Dr Jamie Lucas, Australia
GC Fuji® TRIAGE
Low-viscosity glass ionomer protection & temporary restorative

The most polyvalent material for difficult situations
Guiding the way to caries stabilisation and surface protection

Key advantages
- Moisture tolerance for easy placement, even for partially erupted molars
- Low viscosity and excellent flow for perfect sealing of deep pits & fissures
- Go-to product for tricky situations: kids, elderly, high caries risk, teeth with MIH...
- Available in a unique pink colour with accelerated setting and enabling an easy monitoring
- Easy removal of temporary restorations or endo-access restorations thanks to the pink colour
- Also optimal for the treatment of hypersensitivity

Delivery
- Capsule
- Powder/Liquid

Shade range
- Pink, White

„Being amongst the first users of Fuji TRIAGE in France and after so many years using it, I am still loyal to this glass ionomer. It has no equivalent and is so handy for everyday preventive dentistry.“
Dr Michel Blique, France

Protection of a partially erupted molar with Fuji TRIAGE Pink
Root surface protection with Fuji TRIAGE White & a protective coating layer

Courtesy of Dr Michel Blique, France
Courtesy of Dr Graeme Milicich, New-Zealand
GC Fuji® IX GP, GP FAST & GP EXTRA
High viscosity posterior glass ionomer restoratives

The proven „gold standard”
Hassle-free glass ionomers for posterior cavities

Key advantages

- Condensable materials, easy to apply and to contour
- Resin-free
- Ideal to use in the closed sandwich technique & for temporary restorations
- Fuji IX GP FAST displays a much shorter procedure time: only 3 minutes from mixing to finishing
- Fuji IX GP EXTRA offers higher translucency and shorter setting time

Delivery

- Fuji IX GP FAST: Capsule
- Fuji IX GP & Fuji IX GP EXTRA: Capsule & Powder/Liquid

Shade Range

- Fuji IX GP: A2, A3, A3.5, B2, B3, C4
- Fuji IX GP FAST: A1, A2, A3, A3.5, B2, B3, C4
- Fuji IX GP EXTRA: A1, A2, A3, A3.5, B1, B2, B3, C4

„Fuji IX GP EXTRA is the ultimate all-round glass-ionomer restorative material, featuring a simple procedure, the best chemical coronal seal and a high strength. Fuji IX GP EXTRA is matchless, clinically proven and remains the most versatile glass ionomer system.”

Dr Akit Patel, United Kingdom

Failing amalgam restorations
Amalgam removal & preparation
Fillings with Fuji IX GP EXTRA
Final temporary restorations

Courtesy of Dr Matteo Basso, Italy
GC Fuji® VIII GP
Self-cure resin-modified glass ionomer anterior restorative

Key advantages

- High aesthetics & translucency, ideal for anterior cases
- Excellent mechanical properties and marginal integrity over time
- Bulk-fill application

Delivery

- Capsule
- Powder/Liquid

Shade range

- A2, A3, A3.5, B2, B3, C4

GC Conditioners

Key advantages

- Clean the surface effectively for improved adhesion
- Improve wettability & adaptation of the restorative material
- Prepare dentin & enamel for chemical adhesion without opening the dentinal tubules
- Enhance the marginal seal
- Blue tint for a controlled application

GC Dentin Conditioner
Polyacrylic acid cavity conditioner

GC Cavity Conditioner
Cavity cleaning agent

Shade range

- 10% polyacrylic acid
- Application time of 20 seconds

- 20% polyacrylic acid
- 3% aluminum chloride hexahydrate
- Application time of 10 seconds

Restoration of deep Class III cavities with Fuji VIII GP

Courtesy of Dr Valeriy Tishenko, Russia
The new Generation of long-term Restoratives

GC’s Long-Term Biomimetic Systems

- EQUIA
- EQUIA Forte HT
**GC EQUIA®**
Bulk-fill long-term restorative system

The proven posterior restorative system
Long-term aesthetics simplified

Key advantages

- **Long-term indications** thanks to the combination of a fast-setting & translucent high-viscosity material (EQUIA Fil) and a highly filled resin coating (EQUIA Coat)
- **Quick and technique-tolerant permanent** material
- **High fracture toughness, flexural strength and flexural fatigue resistance**
- Increased strength of the material over time due to the unique maturation effect, attributed to saliva
- **Total procedure time of only 3’30”**
- The most aesthetic in its class thanks to a high translucency
- **10 years of clinical proof** showing excellent success rates in posterior restorations

„The EQUIA restorative system is indicated for temporary and permanent restorations (small occlusal & proximal cavities) and has remarkable properties: chemical adhesion to tooth tissues, marginal seal, improved mechanical properties, technique-tolerance, fast procedure and biocompatibility.”
Dr Jean-Pierre Attal, France

Delivery

- EQUIA Fil: Capsule
- EQUIA Coat: Bottle

Shade range

- A1, A2, A3, A3.5, B1, B2, B3, C4, SW

Aesthetic amalgam replacements with EQUIA

![Image](Image1.png)

Courtesy of Dr Magdalena Kukurba-Setkowicz, Poland

Restoration of Class V cavities with EQUIA

![Image](Image2.png)

Courtesy of Dr Michel Blique, France
The added advantages of glass hybrid technology

Glass Hybrids take you to the next level

Glass hybrid systems offer the strength of the latest innovative glasses combined to the wear resistance of a filled coating. The unique synergy between the coating and the restorative material improves the durability and wear resistance of the restorations.

Glass Hybrids are true bulk fill materials

Glass hybrid materials are chemically cured in a short time and do not require to be placed in layers. There is no limit in the depth of cure and no shrinkage linked to the setting of the materials, making them a very safe solution for bulk application.

Glass Hybrids widen your options

Thanks to their resistance, glass hybrids are the only glass-based materials which offer extended indications. They are ideal materials for class V and load bearing class I & II cavities.*

Glass Hybrids are long-term restoratives

Clinical studies have shown that glass hybrids are an excellent option for long-term posterior restorations and for the replacement of old amalgams.

*Please refer to Instructions For Use
GC EQUIA Forte™ HT
Bulk-fill glass hybrid restorative system

Strength allied with beauty

Key advantages

• Excellent balance of strength and handling thanks to the intelligent control of particle distribution and interaction of Glass Hybrid technology
• Non-sticky consistency, perfect to be used in bulk without any bonding agent
• High translucency for better aesthetic results, thanks to the material’s optimised refractive index
• Perfect material for long-term Class I & II restorations
• Safe treatment solution for deep cavities with limited post-operative sensitivity
• Excellent alternative to amalgam
• Ideal to restore teeth affected by MIH thanks to a great chemical adhesion even to untreated dentin

“Aesthetic, biomimetic, strong and practical... With these properties, EQUIA Forte HT provides more effective treatment options for patients with deep carious lesions in my clinical practice - without any sensitivity.”
Dr Zeynep Bilge Kütük, Turkey

Delivery

• EQUIA Forte HT Fil: Capsule
• EQUIA Forte Coat: Bottle or Unit Dose

Shade Range

• 8 shades: A1, A2, A3, A3.5, B1, B2, B3 C4

Initial situation showing interproximal caries
Preparation and placement of sectional matrices
Filling with EQUIA Forte HT Fil and adding the final layer of EQUIA Forte Coat
Post-operative situation after light-curing of the coat

Courtesy of Dr Zeynep Bilge Kütük, Turkey
### The best choice for each indication

<table>
<thead>
<tr>
<th>Long-term restorative systems</th>
<th>POSTERIOR</th>
<th>ANTERIOR</th>
<th>OTHER INDICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Class I</td>
<td>Class II</td>
<td>Class V</td>
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<tr>
<td></td>
<td>Small, non-load bearing</td>
<td>Big, load bearing</td>
<td>Small, non-load bearing</td>
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<tr>
<td>EQUIA Forte HT (Glass Hybrid)</td>
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<tr>
<td>Fuji II LC</td>
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<tr>
<td>Fuji TRIAGE **</td>
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<td>Fuji IX GP</td>
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<td>Fuji IX GP EXTRA</td>
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<tr>
<td>Fuji VIII GP</td>
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* The preparation should be 1-1.5mm away from the cusp peaks. Please refer to instructions for use.

** Command set for the Pink shade
# EQUIA Forte HT

**The ideal long-term posterior solution**

- Class I
- Class II
- Posterior Class V
- Core build-up
- Gerodontology
- Restoration of MIH teeth

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# Fuji II LC

**The easy light-cured option**

- Pedodontics
- Sandwich technique
- Class III
- Anterior Class V

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# Fuji TRIAGE

**The best fluid protection**

- Desensitisation of MIH teeth
- Deep cavities
- Fissure sealing
- Partially erupted teeth
- Sealing of endo access cavities
- Root surface protection
- Temporary restorations

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### Technical information

<table>
<thead>
<tr>
<th>EQUIA Forte HT</th>
<th>EQUIA</th>
<th>Fuji II LC</th>
<th>Fuji TRIAGE</th>
<th>Fuji IX GP</th>
<th>Fuji IX GP FAST</th>
<th>Fuji IX GP EXTRA</th>
<th>Fuji VIII GP</th>
</tr>
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<tbody>
<tr>
<td>Working time (mn) at 23°C</td>
<td>1'30</td>
<td>1'15</td>
<td>3'15</td>
<td>3'45</td>
<td>1'40</td>
<td>2'00</td>
<td>1'15</td>
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<tr>
<td>Net setting time (mn) at 37°C</td>
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<td>2'00</td>
<td>Light-cured</td>
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<td>2'20</td>
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</tr>
<tr>
<td>Finishing time from start of mixing (mn) at 37°C</td>
<td>2'30</td>
<td>2'30</td>
<td>6'00*</td>
<td>6'00</td>
<td>3'00</td>
<td>2'30</td>
<td>6'00</td>
</tr>
<tr>
<td>Shelf-life (years)</td>
<td>Caps – 2 Coat – 3</td>
<td>Caps – 2 Coat – 3</td>
<td>2</td>
<td>3</td>
<td>2</td>
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</tr>
</tbody>
</table>

* 4'00 for the Pink shade when using Command Set
When Aesthetics meet Longevity

GC’s Composites

- Essentia family
- G-ænial family
- GRADIA DIRECT family
- everX Flow
- GRADIA CORE
The unique strengths of composites

Composites are highly aesthetic

Composite is the best choice when looking for a highly aesthetic material for anterior restorations or demanding patients. Their translucency and light-scattering ability makes them blend naturally with the surrounding tooth structure for a perfect final outcome.

Composites are very strong

Modern composites feature high strength and are able to withstand masticatory forces. They are also developed to resist wear and to keep a smooth surface over time. Another advantage of composites is that they induce less wear to the antagonists than ceramic materials.

Composites are particularly durable

Thanks to their excellent physical properties, composite materials are very durable and can keep performing well both functionally & aesthetically on the long term. A good hygienic compliance is however needed to avoid the accumulation of plaque which can lead to secondary caries.
GC Essentia®
Universal light-cured radiopaque composite

Open the door to simplification
Discover aesthetic innovation

Key advantages

- **Intuitive shade selection** thanks to a simplified range of 7 shades
- High aesthetic results made simple with a **duo-layering concept** that aims to **mimic the natural ageing of teeth**
- **High gloss retention** thanks to the ultra-fine particles used in the enamel shades
- **Handling of each shade optimised** to its use (softer dentins, packable Universal...)
- Low inventory: **only 7 syringes** for all your cases
- **Characterisation possible** with Essentia Modifiers for high-end aesthetics

Shade Range

- **3 Dentins**: Light (LD), Medium (MD), Dark (DD) for a perfect blending
- **2 Enamels**: Light (LE), Dark (DE) for optimal translucency & opalescence
- **1 Universal** (U) for posterior mono-shade restorations
- **1 Masking Liner** (ML) to conceal discolorations
- **4 Modifiers** (Opalescent OM, Black BM, White WM, Red-Brown RBM) for special effects

„Emulating nature with composite is a difficult challenge, however with Essentia it becomes a simple task: just focus on properly shaping dentin and enamel and the material will do the rest for you. A truly smart system. “
Dr Javier Tapia Guadix, Spain

Initial case  
Palatal shell with Light Enamel  
Dentin layer with Medium Dentin  
Final result

Courtesy of Dr Javier Tapia Guadix, Spain & Prof Marleen Peumans, Belgium
Go one step further with Essentia Universal
1 shade, 3 strong options for all posterior indications

**Key advantages**

- **One Universal (U) shade** available in three viscosities (HiFlo, LoFlo, paste)
- Amazing natural blending effect
- All viscosities recommended from Class I to Class V, including occlusal cavities
- Excellent physical properties for all viscosities, even the most flowable
- Choose your preferred handling: HiFlo for a high wettability and flowability, and LoFlo for an excellent thixotropy
- Low inventory as one shade can be used for all posterior cases

„Minimally invasive procedures involve the design of very small cavities and in such clinical situations, flowable composites can be very useful. While Essentia HiFlo is able to penetrate the tiniest pits and fissures, Essentia LoFlo is ideal for bigger occlusal restorations thanks to its thixotropic viscosity.”

Dr David Gerdolle, Switzerland

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**Shade range**

- 1 Universal shade (U)

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**Small Class I cavities**

Restored with Essentia HiFlo

Non-carious lesions

Restored with Essentia LoFlo

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Courtesy of Prof Joseph Sabbagh, Lebanon

Courtesy of Dr Bojidar Kafelov, Bulgaria
The art of creating invisible & long-lasting aesthetics
Enjoy great handling & amazing blending

Key advantages
- **Effortless handling** with a smooth & non-sticky viscosity
- High aesthetic level thanks to **optimal light-scattering & blending**
- **Versatile in use**: from single shade simplicity to multi-shade complexity
- Enamel selection **based on the age** of the patient
- Posterior version more packable & radiopaque for easy placement & follow-up

Shade Range

**G-ænial Anterior:**
- Standard shades: XBW (Extra Bleach White), BW (Bleach White), A1, A2, A3, A3.5, A4, B1, B2, B3, C3, CV (Cervical), CVD (Cervical Dark)
- Inside (opaque) shades: AO2, AO3, AO4
- Outside (enamel) shades: JE (Junior), AE (Adult), SE (Senior), TE (Translucent), IE (Incisal), CVE (Cervical)

**G-ænial Posterior:**
- Standard shades: P-A1, P-A2, P-A3, P-A3.5
- Outside (enamel) shades: P-JE (Posterior Junior), P-IE (Posterior Incisal)

„G-ænial Anterior is a wonderful material, ideally colour-tuned and easy to handle. It enables me to make perfect anterior restorations.“
Dr. Ulf Krueger Janson, Germany

Multi-shade layering with G-ænial Anterior

Invisible restoration with G-ænial Posterior

Courtesy of Prof Marleen Peumans, Belgium
Courtesy of Dr Javier Tapia Guadix, Spain
G-ænial® Universal Injectable
Universal high-strength restorative composite

Transform the way you work
Start injecting!

Key advantages

- Indicated for all cavity classes (without any covering layer) thanks to an exceptional strength & wear resistance
- No slumping: the material perfectly keeps its shape thanks to an optimal thixotropy
- Easy extrusion from the syringe & not sticking to the tip – for maximum comfort
- Long-lasting aesthetics thanks to excellent gloss retention and color stability
- Bendable dispensing tips for easy access to any cavity
- High radiopacity for a perfect follow-up

Shade range

16 shades in 3 translucency levels:
- Standard shades: XBW (Extra Bleach White), BW (Bleach White), A1, A2, A3, A3.5, A4, B1, B2, CV (Cervical), CVD (Cervical Dark)
- Inside (opaque) shades: AO1, AO2, AO3
- Outside (enamel) shades: JE (Junior), AE (Adult)

„G-ænial Universal Injectable is the material of choice for all restorative indications. On top of being very easy to control, it has an exceptional strength and a perfect blending with the natural tooth tissues.”
Dr Ahmed Al-Jaff, Iraq

Initial deep Class II cavity
Bendable tips are very useful to reach undercuts
Cavity transformed into a Class I
Final situation after finishing and polishing

Courtesy of Dr Javier Tapia Guadix, Spain
G-ænial® Universal Flo
Universal light-cured injectable composite

From the smallest Class V to the most extensive Class II restoration: controlled flow, maximum strength!

Key advantages

- **Full-strength** universal restorative for all classes of cavities
- Controlled flow for a **perfect adaptation**
- Optimal thixotropy for easy **build-up** of anatomical forms
- Outstanding **gloss retention** in time
- **Superb aesthetics** with 15 shades featuring excellent blending

Shade range

15 shades in 3 translucency levels:
- Standard shades: BW (Bleach White), A1, A2, A3, A3.5, A4, B1, B2, B3, C3, CV (Cervical)
- Inside (opaque) shades: AO2, AO3
- Outside (enamel) shades: JE (Junior), AE (Adult)

„A real flowable material for every indication – very good mechanical properties, easy to use, very nice colour and layering technique.“
Dr Zbynek Mach, Czech Republic

Initial Class V cavity
Final result
Initial Class I & II cavities
Final result

Courtesy of Dr Ulf Krüger-Jansen, Germany
Courtesy of Prof Joseph Sabbagh, Lebanon
From creating perfect linings to restoring narrow tunnel preparations: discover the foundation of perfect aesthetics!

Key advantages

- Optimal viscosity for **lining and small cavities**
- Great flowability for a **perfect adaptation** to cavity walls
- **Easy follow-up** thanks to a high radiopacity even at low thickness
- Opaque shades to **mask cavity bottom discolorations**
- Ergonomic syringe design for a **comfortable and precise application**

Shade range

8 shades in 2 translucency levels:
- Standard shades: A1, A2, A3, A3.5, A4, CV (Cervical)
- Inside (opaque) shades: AO2, AO3

„G-ænial Flo X is optimal to use together with G-ænial Posterior for cases with multiple areas of decay. It is an ideal indication, because the high radiopacity helps to detect quickly the emergence of secondary caries.“
Dr Frédéric Raux, France
One shade simplicity and aesthetic invisibility – proven

Key advantages

- **Invisible natural aesthetics** thanks to superb chameleon effect
- **Clinically proven** over more than ten years
- Excellent handling featuring easy placement & shaping and a long working time
- Optimal for both single-shade and multi-shade restorations
- Available in Anterior and Posterior versions, as well as GRADIA DIRECT X featuring a higher radiopacity

Shade range

**GRADIA DIRECT Anterior:**
- Standard: XBW (Extra Bleach White), BW (Bleach White), A1, A2, A3, A3.5, A4, B1, B2, B3, C3, CV (Cervical), CVD (Cervical Dark)
- Inside (opaque): AO2, AO3, AO4
- Outside (translucent): DT (Dark), CT (Clear), GT (Gray), NT (Natural), WT (White), CVT (Cervical)

**GRADIA DIRECT Posterior:**
- Standard: PA1, PA2, PA3, PA3.5
- Outside (translucent): P-WT (Posterior White), P-NT (Posterior Natural)

**GRADIA DIRECT X:**

"The predictability, ease of adaptation & sculpting and proven quality of GRADIA DIRECT make it possible to achieve the reliability and aesthetics that my patients expect."

Dr Michał Szewczyk, Poland

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Diastema closure with GRADIA DIRECT Anterior

Courtesy of Dr Javier Tapia Guadix, Spain

Hypoplastic enamel on central incisors restored with GRADIA DIRECT Anterior at 9 and 12 years recall

Courtesy of Dr Serhat Köken, Turkey
Aesthetic hybrid microfilled composites for simple restorations

Key advantages

- Two viscosities to cover many indications:
  - GRADIA DIRECT Flo (highly flowable) is optimal for lining, undercuts or enamel imperfections
  - GRADIA DIRECT LoFlo (high viscosity flowable) is perfect to achieve a stable placement without slumping
- Highly filled composites for superior strength and wear resistance
- Clinically proven over more than ten years
- Combining ease of use & natural aesthetics

Shade range

GRADIA DIRECT Flo & GRADIA DIRECT LoFlo: 7 shades in 2 translucency levels

- Standard shades: BW (Bleach White), A1, A2, A3, A3.5, CV (Cervical)
- Inside (opaque) shade: AO3

„Versatile and effective, GRADIA DIRECT Flo displays an excellent wettability and great ability to fill the smallest gaps, without being too flowable. Its application can thus be fully controlled, both at the cavity bottom (avoiding the risk of voids) and when creating splints or sealing fissures.”
Dr Laurent Viard, France

Initial situation
Preparation
After application of GRADIA DIRECT LoFlo
Recall situation

Courtesy of Dr Elias Abou Tayeh, Lebanon
everX Flow™
Short-fibre reinforced flowable composite for dentin replacement

Strong to the core
The toughest composite substructure to reinforce your restorations

Key advantages
- Optimal to strengthen large restorations thanks to the reinforcing effect of fibres
- Excellent fracture toughness reducing the risk of catastrophic failures
- Perfect thixotropy for an easy placement & adaptation
- No slumping even in upper molars
- Quick procedure when using the Bulk shade (with a layer thickness up to 5,5mm)
- Excellent aesthetic results with the Dentin shade (in layers of 2mm)
- Indicated both for dentin replacement and for core build-up preparations

Shade range
- Dentin shade
- Bulk shade (Translucent)

“Flowable, easy to use and biomimetic, everX Flow is a unique restorative material able to emulate both dentin and dentino-enamel junction (DEJ) by providing the elasticity and toughness of dentin and the unique stress-breaking property of the DEJ.”
Dr Mark Frater, Hungary

Cavity preparation
Application of everX Flow (Dentin shade)
Final layer with Essentia (Universal shade)
Post-operative situation

Courtesy of Georg Benjamin, Germany
GRADIA® CORE
Dual-cure composite for core build-up & post cementation

Complete system for aesthetic core build-up and post luting in only one appointment

Key advantages

- Optimal thixotropy: flows under pressure for post luting, stays in shape for core build-up without using pre-forms
- Easy procedure with limited steps for a one-appointment realisation
- Cutting feeling similar to dentin, for an easier finishing and smooth edges
- Strong enough to resist the occlusal pressure thanks to a 75% filler load
- Modulus of elasticity close to dentin, to naturally distribute the stress in the tooth structure
- Secured adhesion thanks to a combination of dual-cure and contact-cure

Shade range

- One universal shade

“Working with GRADIA CORE is extremely easy as it can be used both to lute posts and to create the core build-up, thereby making the restoration strong & monolithic. It is also time & cost-saving as everything can be done using the same mixing tip! Additionally, the hardness of the set material is very close to that of dentin, therefore it’s easy to prep the stump for indirect restorations without creating grooves at the interface between the tooth structure and the core material.”
Dr Rosen Venelinov, Bulgaria

Trial fit of the post
Application of GRADIA CORE Self-Etching Bond
Application of GRADIA CORE in the root canal
Final core build-up preparation

Courtesy of Prof Emmanuel D’Incau, France
The best choice to fit your requirements

Which shade system?

Simplified shade system

Aesthetic layering → Essentia

One-shade simplicity → Essentia Universal

Highest aesthetics → G-ænial range

VITA* system

Long clinical proof → GRADIA DIRECT range

Essentia Dentin & Enamels

Essentia Universal

Essentia LoFlo

Essentia HiFlo

G-ænial Anterior
G-ænial Posterior

G-ænial Universal Injectable
G-ænial Universal Flo

G-ænial Flo X

GRADIA DIRECT Anterior
GRADIA DIRECT Posterior
GRADIA DIRECT X

GRADIA DIRECT LoFlo
GRADIA DIRECT Flo

Dentin & Enamels Paste

Essentia Universal Paste

Essentia LoFlo Injectable

Essentia HiFlo Flowable

G-ænial Universal Injectable Paste

G-ænial Universal Flo Injectable

G-ænial Flo X Injectable

GRADIA DIRECT Anterior Paste

GRADIA DIRECT Posterior Flowable

GRADIA DIRECT X Flowable

GRADIA DIRECT LoFlo Injectable

GRADIA DIRECT Flo Injectable

*Vita® is a registered trademark of Vita Zahnfabrik, Bad Sackingen, Germany.
<table>
<thead>
<tr>
<th>Viscosity</th>
<th>Composition</th>
<th>Main indication</th>
<th>Syringe delivery</th>
<th>Syringe volume</th>
<th>Unitip delivery</th>
<th>Unitip volume</th>
<th>Number of shades</th>
<th>Filler content (%w/w)</th>
<th>Radiopacity</th>
<th>Depth of cure</th>
<th>Working time</th>
<th>Shelf-life</th>
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</thead>
<tbody>
<tr>
<td>Essentia LD, MD, DD</td>
<td>Paste Micro-HDR hybrid</td>
<td>Universal</td>
<td>✓</td>
<td>2mL</td>
<td>✓</td>
<td>0,16mL</td>
<td>3</td>
<td>76%</td>
<td>142%</td>
<td>1,5-2,0mm</td>
<td>240s</td>
<td>3 years</td>
</tr>
<tr>
<td>Essentia LE, DE, OM</td>
<td>Paste Ultra-fine hybrid</td>
<td>Universal</td>
<td>✓</td>
<td>2mL</td>
<td>✓</td>
<td>0,16mL</td>
<td>2</td>
<td>81%</td>
<td>291%</td>
<td>2,5mm</td>
<td>220s</td>
<td>3 years</td>
</tr>
<tr>
<td>Essentia U</td>
<td>Paste Micro-HDR hybrid</td>
<td>Universal</td>
<td>✓</td>
<td>2mL</td>
<td>✓</td>
<td>0,16mL</td>
<td>1</td>
<td>81%</td>
<td>252%</td>
<td>2,5mm</td>
<td>120s</td>
<td>3 years</td>
</tr>
<tr>
<td>Essentia ML</td>
<td>Injectable Ultra-fine hybrid</td>
<td>Universal</td>
<td>✓</td>
<td>2mL</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>181%</td>
<td>2mm</td>
<td>70s</td>
<td>3 years</td>
</tr>
<tr>
<td>Essentia LoFlo</td>
<td>Injectable Ultra-fine hybrid</td>
<td>Universal</td>
<td>✓</td>
<td>2mL</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>69%</td>
<td>181%</td>
<td>2mm</td>
<td>70s</td>
<td>3 years</td>
</tr>
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<td>Essentia HiFlo</td>
<td>Flowable Ultra-fine hybrid</td>
<td>Universal</td>
<td>✓</td>
<td>2mL</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>69%</td>
<td>303%</td>
<td>2mm</td>
<td>75s</td>
<td>3 years</td>
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<tr>
<td>G-ænial Anterior</td>
<td>Paste Micro-HDR hybrid</td>
<td>Anterior</td>
<td>✓</td>
<td>2,7mL</td>
<td>✓</td>
<td>0,16mL</td>
<td>22</td>
<td>76%</td>
<td>142%</td>
<td>1,5-3,5mm</td>
<td>240s</td>
<td>3 years</td>
</tr>
<tr>
<td>G-ænial Posterior</td>
<td>Paste Micro-HDR hybrid</td>
<td>Posterior</td>
<td>✓</td>
<td>2,7mL</td>
<td>✓</td>
<td>0,16mL</td>
<td>6</td>
<td>81%</td>
<td>252%</td>
<td>2,0-3,0mm</td>
<td>120s</td>
<td>3 years</td>
</tr>
<tr>
<td>G-ænial Universal Injectable</td>
<td>Injectable Ultra-fine hybrid</td>
<td>Universal</td>
<td>✓</td>
<td>1mL</td>
<td>✓</td>
<td>0,16mL</td>
<td>16</td>
<td>69%</td>
<td>252%</td>
<td>1,5-2,5mm</td>
<td>100s</td>
<td>3 years</td>
</tr>
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<td>G-ænial Universal Flo</td>
<td>Injectable Ultra-fine hybrid</td>
<td>Universal</td>
<td>✓</td>
<td>2mL</td>
<td>–</td>
<td>–</td>
<td>15</td>
<td>69%</td>
<td>181%</td>
<td>1,5-2,0mm</td>
<td>70s</td>
<td>3 years</td>
</tr>
<tr>
<td>G-ænial Flo X</td>
<td>Flowable Ultra-fine hybrid</td>
<td>Universal</td>
<td>✓</td>
<td>2mL</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>69%</td>
<td>303%</td>
<td>1,5-2,0mm</td>
<td>75s</td>
<td>3 years</td>
</tr>
<tr>
<td>GRADIA DIRECT Anterior</td>
<td>Paste Micro-hybrid</td>
<td>Anterior</td>
<td>✓</td>
<td>2,7mL</td>
<td>✓</td>
<td>0,16mL</td>
<td>22</td>
<td>73%</td>
<td>51%</td>
<td>1,5-3,5mm</td>
<td>270s</td>
<td>3 years</td>
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<tr>
<td>GRADIA DIRECT Posterior</td>
<td>Paste Micro-hybrid</td>
<td>Posterior</td>
<td>✓</td>
<td>2,7mL</td>
<td>✓</td>
<td>0,16mL</td>
<td>6</td>
<td>77%</td>
<td>131%</td>
<td>2,0-3,0mm</td>
<td>150s</td>
<td>3 years</td>
</tr>
<tr>
<td>GRADIA DIRECT X</td>
<td>Paste Micro-hybrid</td>
<td>Posterior</td>
<td>✓</td>
<td>2,7mL</td>
<td>✓</td>
<td>0,16mL</td>
<td>6</td>
<td>77%</td>
<td>214%</td>
<td>2,0-3,5mm</td>
<td>150s</td>
<td>3 years</td>
</tr>
<tr>
<td>GRADIA DIRECT LoFlo</td>
<td>Flowable HDR-hybrid</td>
<td>Universal</td>
<td>✓</td>
<td>0,8mL</td>
<td>–</td>
<td>–</td>
<td>7</td>
<td>63%</td>
<td>130%</td>
<td>1,5-2,0mm</td>
<td>70s</td>
<td>3 years</td>
</tr>
<tr>
<td>GRADIA DIRECT Flo</td>
<td>Flowable HDR-hybrid</td>
<td>Universal</td>
<td>✓</td>
<td>0,8mL</td>
<td>–</td>
<td>–</td>
<td>7</td>
<td>67%</td>
<td>185%</td>
<td>1,5-2,0mm</td>
<td>70s</td>
<td>3 years</td>
</tr>
<tr>
<td>everX Flow</td>
<td>Flowable Fibre-reinforced</td>
<td>Universal</td>
<td>✓</td>
<td>2mL</td>
<td>✓</td>
<td>0,16mL</td>
<td>2</td>
<td>70%</td>
<td>223%</td>
<td>2,0-5,5mm</td>
<td>90s</td>
<td>3 years</td>
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<tr>
<td>everX Posterior</td>
<td>Paste Fibre-reinforced</td>
<td>Posterior</td>
<td>–</td>
<td>–</td>
<td>✓</td>
<td>0,13mL</td>
<td>1</td>
<td>77%</td>
<td>290%</td>
<td>4mm</td>
<td>90s</td>
<td>2 years</td>
</tr>
</tbody>
</table>
GC’s Bonding Agents & Related Products

- D-Light Pro
- G-Premio BOND
- G-ænial Bond
- G-BOND
- everStick
- NEW METAL STRIPS
- EPITEX
- DIAPOLISHER PASTE
- GC Modeling Liquid

There’s so much more to discover!
D-Light® Pro
Dual wavelength LED curing light

Cure. Protect. Detect...
See the invisible with D-Light Pro’s Detection Mode

Key advantages
- Wide emission range to **efficiently polymerise all materials**, regardless of the initiator
- High Power mode to have the **highest curing efficiency** for all routine cases
- Low Power mode optimal to **limit heat generation** when close to the pulp
- Detection mode based on violet light to **visualise active plaque, micro-leakage, old restorations**…
- **Effortless handling & maximum comfort** thanks to a light and thin handpiece
- Autoclavable handpiece & light-guide for **optimal hygiene**

Technical characteristics
- **Wavelength range**
  - Peaks at 400-405nm & 460-465nm
  - Polymerisation of visible light curing materials curing with a wavelength range of 400 to 480nm

- **Power output**
  - High Power mode: 1400mW/cm²
  - Low Power mode: 700mW/cm²

„The additional visual information you get while using the Detection mode of D-Light Pro during examination, caries excavation, composite removal and even composite reconstruction is a valuable bonus to the curing modes.“
Dr Stephane Browet, Belgium

Detection of active plaque
Detection of micro-leakage
Detection of fluorescent restorations
Crack evaluation

Courtesy of Dr Javier Tapia Guadix, Spain
Discover GC’s universal bonding agent: zero compromises on performance – zero compromises on manipulation

Key advantages

• Compatible with all etching techniques (self-etch, selective etch or total-etch)
• Indicated for direct bonding, but also for hypersensitivity treatment & repair cases
• Optimal performance on different substrates thanks to 3 functional monomers (4-MET, MDP & MDTP)
• Extremely thin film thickness (3µm) for very low chances of discoloration
• No post-operative sensitivity thanks to an excellent penetration into dentinal tubules
• Very easy procedure with low technique sensitivity
• No waste thanks to a long working time and a thin nozzle delivering up to 300 drops per bottle

Delivery modes

• Bottle
• Unit Dose

„Predictable bonding to dental substrates has long been an onerous and technique-sensitive task. G-Premio BOND has eliminated these issues for all direct and indirect procedures. It truly is a fantastic material.“
Dr Serhat Köken, Turkey

Selective etching of enamel
Dispensing of G-Premio BOND
Application of G-Premio BOND
Invisible bonding layer

Courtesy of Dr Serhat Köken, Turkey
GC G-ænial® Bond
One-component self-etching light-cured adhesive

Key advantages
- Compatible with both self-etch and selective etch techniques
- Long-lasting bond strength to both enamel & dentin
- Excellent marginal integrity in time, proven in independent tests
- No post-operative sensitivity as dentin is not etched

Delivery
- Bottle

Optional selective enamel etching
Application of G-ænial Bond

Courtesy of Dr Stanisław Lascosiński, Poland

GC G-BOND
One-component self-etching light-cured adhesive

Key advantages
- True one-bottle system with a one-step application
- Very easy & fast procedure with low technique sensitivity
- Extensive clinical proof showing superior performance in time
- Mild etching effect & HEMA-free composition for the best durability

Delivery
- Bottle
- Unit Dose

Application in self-etching mode
Final restorations

Courtesy of Dr Javier Tapia Guadix, Spain
Minimally invasive & patient-friendly fibre reinforcement solutions for daily dentistry

Key advantages

- **Minimally invasive** and **reversible** solutions, leaving **all options open** for future treatments
- **Extensive clinical proof** & in vitro research available
- **Superior mechanical properties**
- **Unique patented bonding** with IPN (Interpenetrating Polymer Network) technology
- **Economical alternative** to indirect treatments

Indications

- Fibre-reinforced composite **bridges**
- Advanced root canal **post & core** structures
- **Splints** of mobile and traumatised teeth
- Orthodontic **retainers**

“I hear dentists say that working with fibres is difficult. They probably never tried everStick... It’s instant, easy to handle, extremely durable under load and enables to treat patients in a minimally invasive way. What else can you ask for?”

Dr Rudolf Novotny, Slovakia

Direct fibre-reinforced bridge with everStickC&B

Placement of an everStickPERIO fibre splint

everStickPOST custom-made post

Trauma splint with everStickNET
NEW METAL STRIPS
Interproximal finishing strips

Key advantages
- Very thin, flexible & resistant material
- Autoclavable & easy to clean
- 4 different grits (Extra Coarse, Coarse, Medium, Fine)

DIAPOLISHER PASTE
Diamond polishing paste for composite & porcelain

Key advantages
- Optimal to quickly achieve final high luster
- Effective in avoiding plaque attachment and discolorations
- Easy to wash away with water
- Nice minty flavor for patient comfort

EPITEX
Finishing & polishing strips

Key advantages
- Very thin, flexible & resistant material
- Handy dispensing system
- 4 different grits (Coarse, Medium, Fine, Extra Fine) & matrix strips

GC Modeling Liquid
Liquid to model composite materials for direct restorations

Key advantages
- Simplifies the application & shaping of direct composites
- Provides a smoother aspect to the last layer
- Invisible to achieve the best aesthetic results

Using EPITEX (Medium Grit) to finish the interproximal areas

Applying Essentia composite using a brush wetted with GC Modeling Liquid

Courtesy of Dr Javier Tapia Guadix, Spain
GC Restauratieve oplossingen

GC Essential, Starter Kit Syringe (Syringe 2ml, of LED MD, DD LE, DE LE, ML, ML + shade guide)
GC Essential, Starter Kit Unitips (5 Unitips each of LED MD, DD LE, DE LE, U + Syringe 2ml, ML + shade guide)
GC Essential, Modifier Kit (Syringe 2.4ml, of RIM, BM, WM, Syringe 2ml, CM)