EQUIA®
A new DIMENSION in Restorative Dentistry
EQUIA is a unique restorative system for aesthetic and economical long term posterior restorations with impressive strength on all levels. EQUIA performs where you need it and is routinely used as part of treatment strategies in:

Minimally Invasive Restorative techniques utilizing EQUIA Fil & EQUIA Coat

- Class I (any size), Class II (only when the isthmus is less than half of the intercuspal distance), Class V restorations
- Long term restorative alternative
- Pediatric restorations
- Geriatric restorations
- Special needs patients
- High caries risk patients
- Core build-up
- High strength and wear resistance
EQUIA the Restorative therapy based on MI dentistry

The EQUIA System unites EQUIA Fil, a new generation of glass ionomer, and EQUIA Coat, a highly-filled resin coating material that brings glass ionomer technology to the next level and offers you:

- Increased fracture **toughness**, flexural **strength** and flexural fatigue **resistance** compared to a conventional Glass Ionomer.
- Optimal **marginal seal** and excellent **adaptation** to the cavity walls.
- **Protection** against initial moisture contamination and acid erosion.
- **High Fluoride release** with interface and with recharge over time.
- Increased strength of the glass ionomer over time due to the **unique secondary maturation effect**, attributed to saliva.

After several months of uniform abrasion of EQUIA Coat, material becomes harder through **unique secondary maturation effect of Saliva**.

Red: Coated until 80 days, soaked in saliva
At 80 days, coating was removed and soaked in saliva again. Maturation increased much more than when the material was uncoated. Afterwards surface hardness increases.

Orange: Uncoated, soaked in Saliva
Surface hardness became saturated after 40 days.

Light blue: Coated until 80 days, soaked in distilled water
Surface hardness did not change after coat was peeled off.

Blue: Uncoated, soaked in distilled water

IADR 2006, abstract 2076
Aesthetic and Translucent

**EQUIA**’s incomparable aesthetics widen your posterior restorative options to fulfil your patients’ expectations.

- Better for your patient, your practice and the environment - an **effective alternative to amalgam** fillings and excellent replacement choice as well in the given indications.
- The restoration is protected against discolouration for **long-term colour stability**.
- Achieve unrivalled shine and smooth surfaces with a durable, **natural gloss** easier than ever before because of **EQUIA Coat**.

**EQUIA Fil**
Polished by using silicon carbide paper (#600)

Some voids are observed

Application of **EQUIA Coat**:
- With unique filler particles uniformly dispersed
- Resulting is a much stronger final restoration
- With a film thickness as low as 35–40 µm
- Protects from acid erosion
- Improves aesthetics
- Takes about 6 months (or more) to wear off

**EQUIA Fil**
After coating

A smooth surface is obtained

**GC Corporation R&D Department**
A Self-adhesive, Bulk-fill, Rapid Restorative System

EQUIA gives a substantial time advantage compared to many other restorative options.

- The use of a rubber dam is optional and the chemical adhesion eliminates complicated bonding procedures.
- The system does not require any layering, is non sticky and packable.
- Total procedure time of less than 3.5 minutes.
- With almost no shrinkage stress, EQUIA can be called a real bulk fill material even for large and deep cavities.
- No need for any complex finishing and polishing since only a single application of EQUIA Coat is required.
- An economical restorative option.
- Easy X-ray recognition.

Quick and easy steps

- Tooth preparation and isolation.
- Infected dentine is removed while affected dentine can be retained in order to avoid pulp exposure.
- Apply GC Dentine Conditioner for 20 seconds.
- Dry the cavity but do not desiccate the tooth.
- Cavity should appear moist.
- EQUIA Fil capsule is mixed for 10 seconds.
- Bulk-fill, pack and contour.
- Polishing under water spray with diamond burs started in about 2’30’’ after start of mixing.
- Apply EQUIA Coat and light cure for 20’’.
- No air blow needed.
- Excellent results in less than 3.5 minutes.
EQUIA System offers longevity and outstanding wear resistance

EQUIA exhibited the highest fracture toughness right from the initial setting with increasing maturation time probably due to the protective coating layer\(^{(1)}\)

(1) Lohbauer et, al. AADR Abstract, Florida 2012

The use of EQUIA Coat with EQUIA Fil results in a remarkable increase of fracture toughness\(^{(2)}\)

(2) GC Corporation R&D Department

Proven, rapid, strong and durable

Cavity preparation and apply dentine conditioner for 20 seconds

Bulk fill, pack and contour

Final finish

Apply EQUIA Coat and light cure for 20 seconds
Safe and Clinically proven

The development of EQUIA is based on years of positive feedback from high-viscosity GIC restorations, of which longevity has been highlighted in recent systematic literature reviews*. Evidence shows that resin coating optimizes the physical properties of the EQUIA restoration. Numerous ongoing worldwide clinical studies are showing very promising results*:

- When evaluating 150 restorations retrospectively after two years, it was concluded that EQUIA may be used as a permanent restoration material for any size Class I and in conservative Class II restorations1

- When compared with micro-hybrid composite resin over a period of 72 months, EQUIA was found to be as efficacious as the micro-hybrid composite resin system2

- Clinical Evaluation Of Reinforced Glass Ionomer Systems After 6 Years, EQUIA system was more successful than Riva regarding color-match and retention rate after a 6-year clinical period. Despite minor reparable defects, the overall clinical performance of EQUIA Fil was excellent even in large posterior Class II restorations after a period of 6 years.3

EQUIA proves its outstanding performance in class I cavities in clinical trials

Survival rates for EQUIA class I restorations

<table>
<thead>
<tr>
<th>Class I Clinical success rate in %</th>
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<tbody>
<tr>
<td>100% 24 months</td>
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<tr>
<td>T. Klinke et. al. Universitätsmedizin Greifswald, 2015</td>
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<tr>
<td>99% 48 months</td>
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<tr>
<td>100% 36 months</td>
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<tr>
<td>91.45% 48 months</td>
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<tr>
<td>S. Gurgan et. al. Abstra ct 89, IADR Cape Town 2014</td>
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<tr>
<td>100% 60 months</td>
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*Independent studies listed on http://www.gcasiadental.com
2. 6-year clinical success of GI restorative comparing with composite resin in posterior teeth. S.Gurgan et al., CED-IADR, Abstract 0220, October 2015
EQUIA®, a Unique System

**Easy**
- Moisture tolerant, no rubber dam needed
- Chemical adhesion
- One-step bulk filling

**Quick**
- Total procedure time < 3’30”
- EQUIA Coat to finish off, no polishing needed

**Unique System**
- EQUIA Fil with EQUIA Coat, unique synergy

**Intelligent**
- Increased wear resistance
- Increased acid erosion resistance

**Aesthetic**
- Durable translucency
- High gloss
- Surface smoothness

**Packaging:**
- EQUIA Fil Single shade package: 50 capsules
- Shade: A2, A3, A3.5
- EQUIA Coat 1 bottle 4 mL