

Introducing EQUIA Forte™



GC

The original EQUIA system

EQUIA is a self-adhesive posterior restorative system that combines the chemical-bonding, bulk-fill characteristics of Fuji IX GP EXTRA, with unique physical and aesthetic properties gained through a lamination hardening effect of G-COAT PLUS.

EQUIA is routinely used as part of treatment strategies for deeper lesions, caries stabilisation and general restorative care in higher caries risk, geriatric and paediatric patients.

G-COAT PLUS is a tough, nano-filled, self-adhesive coating that will chemically bond to Fuji IX GP EXTRA, markedly increasing fracture toughness, early wear resistance and acid resistance.

The application of G-COAT PLUS is the key step to enhance the physical properties of EQUIA restorations, allowing them to achieve their full potential when restoring initial occlusal lesions in posterior teeth.

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

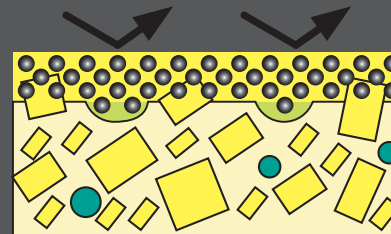
Survival rates for EQUIA class I restorations

| | |
|------------------|-------------------|
| 2 years – 100% | Friedl et al 2011 |
| 3 years – 100% | Diem et al 2014 |
| 5 years – 100% | Gurgan et al 2014 |
| 2 years – 99% | Klinke 2013 |
| 4 years – 98.70% | Basso 2014 |

Lamination strengthening



Mechanical stress concentrates on surface voids leading to crack propagation



Mechanical stress is dispersed by the toughened laminate layer

New, enhanced EQUIA Forte™

EQUIA Forte™ is a complete glass ionomer based, bulk-fill, rapid restorative system, that is easy to use and very quick to place. EQUIA Forte™ builds on the remarkable clinical trials performance of the original EQUIA system and presents as a viable alternative to amalgam for the restoration of posterior teeth.



The EQUIA Forte™ system consists of EQUIA Forte™ Fil and EQUIA Forte™ Coat

EQUIA Forte™ Fil is a high strength glass ionomer restorative. It has similar handling, setting and aesthetics as Fuji IX GP EXTRA, but with enhanced physical properties for superior wear resistance, fracture toughness and durability.

EQUIA Forte™ Coat is a clear, highly wear resistant, self-adhesive light-cured resin coating which laminates EQUIA Forte™ Fil to toughen, polish and protect.

Stronger



Tougher

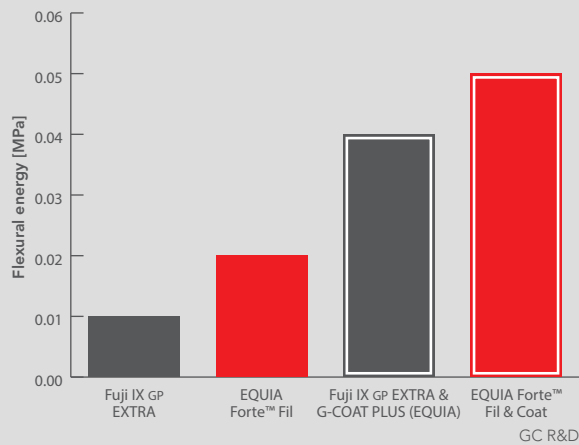


EQUIA Forte™. The new generation of high s

Think strong

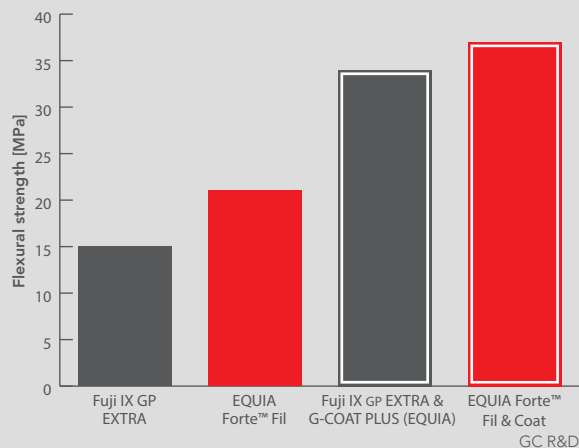
EQUIA Forte™ Fil is a fast setting, aesthetic glass ionomer restorative which features a significant increase in fracture toughness (flexural energy) and flexural strength.

Higher fracture toughness



EQUIA Forte™ Fil features a significant increase in flexural energy (fracture toughness), through the introduction of novel HYBRID glass technology.

Higher flexural strength



This patented HYBRID glass technology increases the availability of metal ions to build a much stronger matrix structure with greater flexural strength.

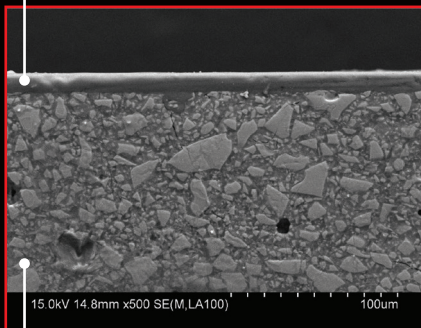
High strength glass ionomer restorative

Think tough

EQUIA Forte™ Coat completes the EQUIA Forte™ restoration providing a smooth laminated surface with remarkable strength and impressive wear resistance. EQUIA Forte™ Coat is more flowable than G-COAT PLUS, resulting in a smoother surface.

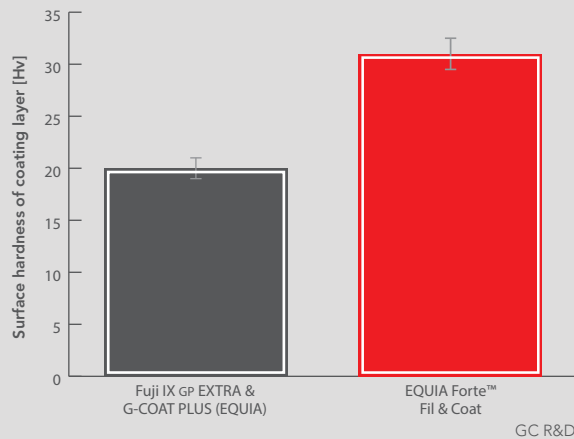
EQUIA Forte™ Coat is designed for optimum wetting, strong adhesion, and has excellent colour stability and stain resistance.

EQUIA Forte™ Coat



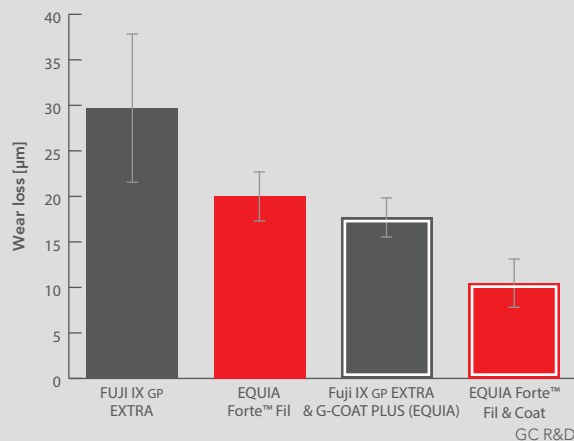
EQUIA Forte™ Fil

Higher surface hardness



The enhanced combination of monomers means EQUIA Forte™ Coat is stronger, tougher and able to achieve a high degree of polymerisation with no air inhibited layer once light cured.

Superior wear resistance



Reinforcement by single dispersion nanofillers provides wear resistance. The strong chemical adhesion of EQUIA Forte™ Coat to applied surfaces means its minimal wear loss over time is even and controlled.

Think synergy and speed

The synergy of GC's latest glass ionomer and resin technologies, working with minimal intervention cavity techniques, takes the proven EQUIA system to the next level of performance. EQUIA Forte™ builds stronger glass ionomer restorations for posterior and cervical cavities, using a simple procedure that can take less than 5 minutes to complete.

Case Study



Female patient, age 36. Tooth 46 rapid caries approaching distal.



CAVITY CONDITIONER applied for 10sec to remove surface debris.



EQUIA Forte™ Fil has up to 60sec working time and is placed in one increment.



Preliminary shaping was performed; occlusal contact, good aesthetics and shape were verified.



EQUIA Forte™ Coat was applied and light-cured 20sec to complete the EQUIA restoration.



1 week after placement.

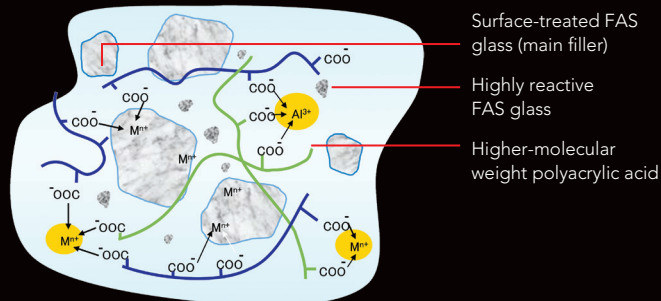
Q&A

1. Why is EQUIA Forte™ Fil stronger than Fuji IX GP EXTRA?

EQUIA Forte™ Fil is stronger because the matrix surrounding the glass fillers is stronger. This is achieved through the introduction of novel HYBRID glass technology.

Aside from the conventional glass particles, an innovative ultrafine, highly reactive glass is dispersed into EQUIA Forte™ Fil.

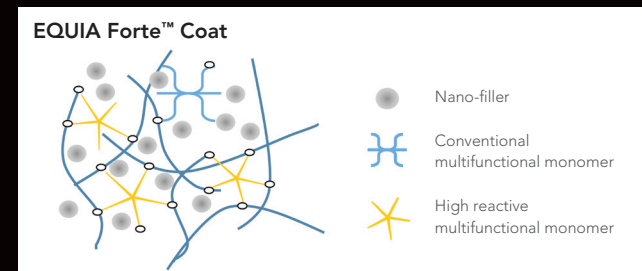
Combined with a higher molecular weight polyacrylic acid, this new HYBRID glass formulation increases ion availability, enhancing matrix formation and builds a much stronger matrix structure.



2. Why is EQUIA Forte™ Coat tougher than G-COAT PLUS?

EQUIA Forte™ Coat features new cross-linking monomer chemistry, with more efficient polymerisation characteristics to produce a tougher resin matrix, that

is further reinforced by single dispersion nano-fillers. This new monomer also improves handling and creates a smoother surface finish.



3. How aesthetic is EQUIA Forte™?

EQUIA Forte™ Fil has a great shade-matching ability and EQUIA Forte™ Coat forms a high lustre, translucent coating, saving you polishing time. The synergy of these two materials in EQUIA Forte™, means you will achieve excellent aesthetics in minimal time.



Dr.E. Stephen Vouliotis



EQUIA Forte™ Fil

Box: 50 capsules

Shades: A1, A2, A3, A3.5, B1, B2, B3, C4

Assorted (contains 10 each A2, A3, A3.5, B1, B3)



EQUIA Forte™ Coat

Bottle 4mL

Basso M, Ionescu A, Goñe Benites M. 48-Months, Multicentre, Clinical Evaluation on 304 Glass Ionomer Permanent Restorations. J Dent Res 2014; 93 (Spec Issue C):192686

Friedl K, Hiller KA, Friedl KH. Clinical performance of a new glass ionomer based restoration system: A retrospective cohort study. Dent Mater 2011; 27:1031-1037.

Gurgan S, Kutuk ZB, Firat E, Cakir Y, Oktas SS. 60-Month Clinical Performance Of A Glass-Ionomer Restorative System. J Dent Res 2014; 93 (Spec Issue B): 89.

Klinke TU, Daboul AA, Biffar RH. EQUIA – RCT in the field: Longevity after 24 months. J Dent Res 2013; 92 (Spec Issue B):3.

Diem VT, Tyas MJ, Ngo HC, Phuong LH, Khanh ND. The effect of a nano-filled resin coating on the 3-year clinical performance of a conventional high-viscosity glass-ionomer cement. Clin Oral Investig 2014; 18(3): 753-759.

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