





Leading the way to a new standard

With over 1 billion composite restorations and a century of competence in dental materials, GC is leading the way to new standards in adhesive dentistry. With its proprietary **Dual H-Technology**, an advanced optimization of the bonding both to the tooth and the composite, G2-BOND Universal is an **all-around universal 2-bottle system** combining what clinicians would expect from existing self-etch (SE) and etch-and-rinse (ER) Gold Standards, and even more:



- Your choice of preferred etching mode
- High durability and bond strength
- Excellent resistance to marginal staining
- Easy dispensing and low technique sensitivity
- Multiple indications ¹

Evaluations by clinicians worldwide resulted in many restorations performed with G2-BOND Universal.² The results indicate:

- Remarkable sealing effectiveness with virtually no post-op sensitivity ³
- 97% satisfaction in SE and ER etching modes
- 98% satisfaction with product handling and dispensing
- 89% satisfaction with the ergonomic bottle design



¹ Indications: Direct Composites I Intra-oral Repair I Immediate Dentin Sealing (IDS) I Treatment of hypersensitive teeth I Treatment of exposed root surfaces I Luting of indirect restorations (with G-CEM LinkForce™) I Post luting & Core Build-up (with GRADIA™ CORE & G-Premio BOND DCA).

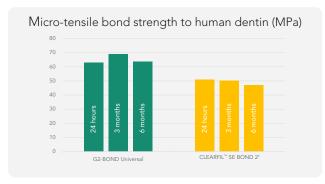
² Data on File.

³ Results confirmed by independent study from University of Siena, Italy.

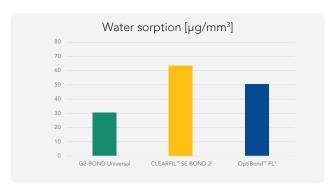
⁴ Prof Van Meerbeek, KU Leuven, Belgium.

Leading the way to...

...High durability and bond strength



Source: Dr Mine, Osaka University, Japan



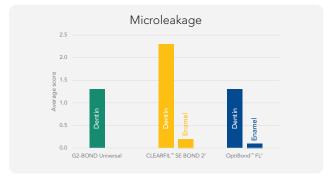
Source: Prof Van Meerbeek, KU Leuven, Belgium

G2-BOND Universal creates a physically stronger, more durable adhesive layer as the **Dual-H Technology** ensures a **higher bond** strength immediately after placement, with lower water sorption which decreases the risk of degradation for optimal durability.

...Outstanding marginal quality



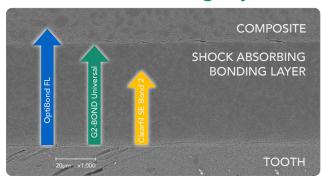
Source: Prof Tagami, Tokyo Medical and Dental University, Japan



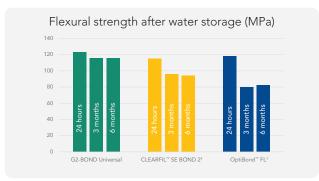
Source: Prof Ferrari, University of Siena, Italy

A strong bond layer that assists the aesthetic transition from the composite to the tooth, **avoid gap formation and microleakage** to maintain marginal quality over time.

...Shock absorbing layer



Source: (SEM picture) Prof Miyazaki, Nihon University, Japan (Film thickness) GC R&D, Japan, 2020, Data on File



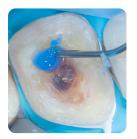
Source: GC R&D, Japan, 2020, Data on File

The optimal thickness and flexural strength of G2-BOND Universal may act as a shock absorbing layer to avoid debonding. It functions as a base in large cavities and can overcome the polymerisation shrinkage, compensating for the stress caused by the over layered composite. Now clinicians can enjoy the benefits of a thick bonding layer in all etching modes.

Leading the way to...

...Superb clinical handling

IDS technique



Etching the tooth structure



Application of 1-PRIMER



Application of 2-BOND



After photopolymerisation, the sealed dentin is ready for digital impression.

Class II restoration



Selective enamel etching



Application of 1-PRIMER

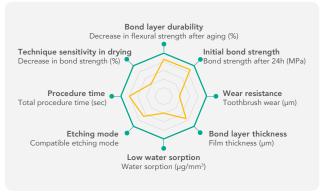


Application of 2-BOND

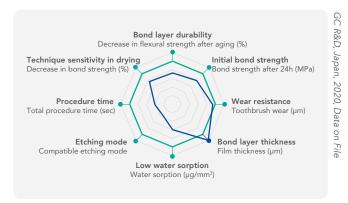


After photopolymerisation, the restorative material is applied.

...a new 2-bottle bonding standard in all etching modes



G2-BOND Universal CLEARFIL™ SE BOND 2[†]



G2-BOND Universal OptiBond™ FL[†]

The spider graphs above show the all-around performance of G2-BOND Universal that leads the way to:

- Long-lasting restorations
- Virtually no post-operative sensitivity and aesthetic bonding layer
- Optimal handling and dispensing



For all-around satisfaction and comfort of your patients!

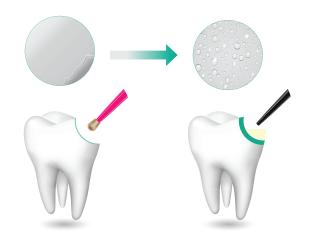
G2-BOND Universal Dual H-Technology

Challenged to **improve on existing 2-bottle benchmarks**, GC researchers focused on strengthening the adhesive layer and significantly reducing the potential for water degradation over time. The new GC proprietary **Dual-H Technology provides a smooth transition from hydrophilic to hydrophobic characteristics** in the primed surface, which is then **further strengthened by a truly hydrophobic protective bond layer.** ⁵

Hydrophilic primer wets and self-etches the tooth surface effectively.

Without hydrophilicity?

- Insufficient resin infiltration to dentin surface
- Higher risk for gap formation



Highly hydrophobic bond layer results in strong bonding to composite.

Without hydrophobicity?

- Hydrolytic degradation of bond layer
- Increased risk for debonding

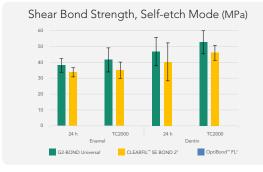
All-around performance of a unique composition

- 4-MET for a reliable adhesion to enamel & dentin
- MDP for an excellent adhesion to enamel & dentin, zirconia, alumina and non-precious metals
- MDTP to bond to precious metals
- HEMA-free bonding system for a clinically proven outstanding durability ⁶

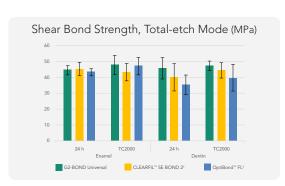
G2-BOND Universal (0% HEMA)

Clearfil SE BOND 2 (10-30% HEMA)

Optibond FL (20-40% HEMA)

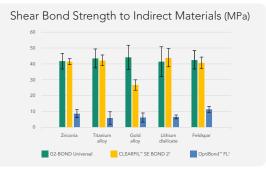






Source: GCC R&D





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Order no. 013646	Description G2-BOND Universal Bottle Kit	Content 1x 1-PRIMER 5mL 1x 2-BOND 5mL accessories
013651	G2-BOND Universal 1-PRIMER Refill 5ml	1x Refill 5mL
013652	G2-BOND Universal 2-BOND Refill	1 x Refill bottle 5mL
013657	G2-BOND Universal 1-PRIMER Bottle Cover	1 x Bottle cover
013658	G2-BOND Universal 2-BOND Bottle Cover	1 x Bottle cover



Related products

G-ænial™ Universal Injectable Injectable High-Strength Ultra-Fine Particle Composite





G-ænial Sculpt®
Universal Composite Restorative





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