GC FIBER POST & GRADIA® CORE

GRADIA CORE has a one-step, self-etching bonding system and the easy mixing system results in a homogeneous mix of the two paste components with an optimal consistency, long working time and rapid dual-cure.

**GC FIBER POST Placement: Clinical Steps**

**Step 1: Preparing the Canal and GC FIBER POST**
- Root canal preparation.
- Thal fit of the post. Determine the length.
- Apply self etching bond to the prep. Leave for 30 seconds. Blow dry with air syringe using moderate pressure for 10 seconds. Light cure for 10 seconds.

**Step 2: Placing the Post and Building the Core**
- Dispense GRADIA CORE into the root canal.
- Seat the post and light cure several seconds to tack cure.
- Continue dispensing GRADIA CORE around the post to form the core.
- Light cure the surfaces for 10 seconds each. Once set, prepare the core using the standard technique.

**Easy Mixing, Cementation and Core Build-Up**

**Bonding Treatment**
Easy to use: 2 liquid mixing, 1 step treatment bonding system.

**Post Cementation and Core Build-Up**
EM (Easy Mixing) system: Fewer bubbles and easy extrusion of the cement. The excellent flow characteristics and paste consistency enable placement without use of a pre-formed matrix. The paste also offers a long working time for accurate placement.

**Curing**
Snap curing, deep curing depth, quick setting time.

**Prepare the Teeth**
Material cuts similarly to dentin.

**GRADIA FIBER POST - KITS**
400001 GC FIBER POST - ASSORTMENT KIT
Contains: 5 Posts – Diameter 1.2, 5 Posts – Diameter 1.4, 5 Posts – Diameter 1.6, 1 Drill – Diameter 1.2, 1 Drill – Diameter 1.4, 1 Drill – Diameter 1.6, TechniqueCard

**GRADIA FIBER POST - REFILLS**
400002 Diameter 1.2 400003 Diameter 1.4 400004 Diameter 1.6

**GRADIA FIBER POST - DRILL REFILLS**
400007 Diameter 1.2 400008 Diameter 1.4

**GRADIA CORE**
000101 GRADIA CORE KIT
Contains: 10 mL cartridge (1), self etching bond liquid A (1), self etching bond liquid B (1), mixing tips (20), intra oral nozzle (1), micro tip applicator (1), micro tip holder (1), dispensing dish (1), micro tips (20)

000102 GRADIA CORE CARTRIDGE REFILL
Contains: 10 mL (20 g)

000103 GRADIA CORE SELF ETCHING BOND LIQUID A REFILL
Contains: One bottle 25 mL

000104 GRADIA CORE SELF ETCHING BOND LIQUID B REFILL
Contains: One bottle 15 mL

**GRADIA CORE - KITS AND GUN**
400111 GRADIA CORE POST & CORE SYSTEM KIT
Contains: 1 GRADIA CORE KIT (10 mL cartridge (1), self etching bond liquid A (1), self etching bond liquid B (1), mixing tips (20), intra oral nozzle (1), micro tip applicator (1), micro tips (20), dispensing dish (1), GC FIBER POST ASSORTMENT KIT (5 Posts each - diameter 1.2, 1.4, 1.6, 1 Drill each - diameter 1.2, 1.4, 1.6), TechniqueCard, Base, 1 GRADIA CORE DISPENSER GUN

400110 GRADIA CORE DISPENSER GUN
Contains: One Dispenser Gun to be used exclusively with GRADIA CORE

SKU #604600
800.323.7063
www.gcamerica.com
www.gcatraining.com
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GC FIBER POST & GRADIA® CORE - Strength and Esthetics for a Strong Foundation

GC FIBER POST Clinical Benefits:

- High strength
- Low modulus of elasticity - similar to dentin
- Minimal dentin removal due to tapered post design
- Strong and intimate bond with GRADIA CORE
- Radiopaque
- Esthetic, with excellent light transmission
- Biocompatible and non-corrosive

GC FIBER POSTS are designed to offer a low modulus of elasticity similar to dentin combined with high flexural strength superior to metal posts, which reduces the risk of stress transfer and root fractures and results in superior fatigue resistance. 1,2,3

The excellent fatigue resistance is attributable to the unique chemistry and high filler content of GC FIBER POSTS, reducing risk of restoration failure.

The taper design of GC FIBER POSTS maximizes adaptation and minimizes dentin removal, preserving root structure and strength. Its radiopacity enables easy checking of the post length at try-in.

GRADIA CORE Clinical Benefits:

- Modulus of elasticity similar to GC FIBER POST and dentin
- High flexural and compressive strength
- Self-etching bonding system, easy mixing and handling
- Excellent flow - prevents voids in bonded post and core
- High bond strength to enamel, dentin and GC FIBER POSTS
- High microtensile strength
- More than 3 minutes working time
- Rapid, deep dual-cure
- Cutting characteristics similar to dentin
- Radiopaque

The Combination of GC FIBER POST and GRADIA CORE Offers Unsurpassed Esthetics

- White translucent post optimizes esthetics, removes risk of shadowing
- Optimal light transmission through post and core for light-curing

GC FIBER POST and GRADIA CORE are both radiopaque, allowing differentiation between tooth structure, the fiber post and the composite core radiographically.

Physical Properties - GRADIA CORE

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Flexural Strength (MPa)</td>
<td>154.1 (16.8)</td>
</tr>
<tr>
<td>Modulus of Elasticity (MPa)</td>
<td>10.8 (0.6)</td>
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<tr>
<td>Compressive Strength (MPa)</td>
<td>273.0 (16.7)</td>
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<tr>
<td>Depth of Cure (mm)</td>
<td>2.9 (0.1)</td>
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<tr>
<td>Curing Time/LED</td>
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<tr>
<td>Radiopacity</td>
<td>268%</td>
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<tr>
<td>Bond Strength to Enamel (MPa)</td>
<td>21.6 (3.3)</td>
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<tr>
<td>Bond Strength to Dentin (MPa)</td>
<td>21.7 (2.2)</td>
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<tr>
<td>Bonding Agent</td>
<td>Self-Etching</td>
</tr>
</tbody>
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