Inside Dentistry®

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Natural Restorations,

Exceptional Strength

What Do Patients Want?

Patients want it all: restorations that are natural and vibrant, dependable and comfortable, without additional appointments or expense.

Fortunately, restorative dentistry has kept up with this demand by developing advanced materials and protocols that allow dentists to deliver more natural-looking and durable restorations—thereby continuing to raise patient expectations.

TO MEET THESE SPIRALING ESTHETIC AND FUNCTIONAL REQUIREMENTS, DENTISTS NEED:

- an esthetic material with advanced physical properties that dental laboratories can deliver at a consistently high standard
- an esthetic and stable adhesive cement with multiple indications
- products that work together seamlessly and predictably

RESTORATIONS COURTESY OF BILL MARAIS, RDT & RICK CANIZARES, DMD

The Esthetic Advantage

At the forefront of dental materials research and development, GC America has created a formidable combination in G-CEM LinkForce® and GC Initial® LiSi Press

GC INITIAL® LISI PRESS, a new high-strength lithium disilicate ingot, is a highly esthetic pressed ceramic option. Its improved properties result in more vital-looking restorations, happier patients, and fewer remakes (saving time and money).

RESTORATIONS COURTESY OF JOHN MCMILLAN & RICK CANIZARES, DMD

WHAT YOUR PATIENTS WANT:

- Exceptional esthetics
- Rich, warm, and brighter color tones
- Excellent fluorescence and opalescence

Whether in the anterior or posterior, patients will clearly see the difference, with beautiful restorations that have a higher chroma and value which more closely replicate the warmth of natural teeth.

G-CEM LinkForce® is a multi-purpose, dual-cured, radiopaque, universal adhesive resin cement system. Stable with multiple indications, this product extends distinct esthetic advantages:

- Four shades to match cementation needs (with corresponding try-in pastes): Translucent, A2, Opaque, and Bleach
- Tooth–like fluorescence
- Good consistency of shades
- Color stable over time
- Low film thickness

Designed for Strength

Patients may be initially more focused on esthetic results, but they expect their restorations to last and not produce oral health complications. Knowing that the materials are working together to enhance strength and function ensures confidence and long-term satisfaction.

A high-strength lithium disilicate ingot, **GC Initial® LiSi Press** complements its esthetic advantages with exceptional physical properties. High Density Micronization (HDM) Technology allows the product to be extremely stable and strong, without distortion or a drop in value, even after multiple firings.

FEATURES

- High flexural strength (> 500 MPa)*
- Lower solubility than other leading brands
- Low abrasion
- Wear resistant
- Robust and stable

*Data on file.

**Designed for all adhesive cementations, G-CEM LinkForce®
offers excellent wear resistance and secured adhesion in one system, with three base elements:**

1. G-Premio BOND™:
bonding to preparations with no compromises
- **4-MET + MDP:** adhesion to enamel, dentin, resin core build-up MDTP: Adhesion to metal core

2. G-Multi PRIMER™:
ensures a stable adhesion to restorations
- **Silane:** bond to glass-ceramics, hybrid ceramics, and composite
- **MDP:** bond to zirconia, alumina, and non-precious metals
- **MDTP:** bond to precious metals

3. G-CEM LinkForce®:
provides a strong bond in virtually all indications
- Universal clinical use

- All types of all-ceramic, lithium disilicates, resin and metal-based inlays, onlays, crowns and bridges, and all milling blocks Metal, ceramic, fiber posts, and cast post and cores
- All-ceramic and composite veneers
- Crowns and bridges on implant abutments

"SEE IT IN ACTION"

For Your Most Challenging Cases

When GC developed Initial LiSi Press, a lithium disilicate material, the company asked Al Hodges, a CDT who owns Highland Dental Arts in Waynesburg, Kentucky, for feedback. For anterior restorations, Hodges says, GC Initial® LiSi Press has completely changed the way he works because significantly less layering is required.

For the posterior region, GC Initial® LiSi Press MT also has more translucency than similar products, Hodges explains. Additionally, GC Initial® LiSi Press has no reaction layer after pressing because it is a denser material, offering a more natural-looking surface finish.

As a result, Hodges is confident that he has settled on his current business model of high-end work for the foreseeable future, even as digital technology continues to spread.

"CAD/CAM is just a tool, and how you make a restoration is secondary to the final product and how you present it," Hodges says. "GC Initial® LiSi Press products allow me to efficiently produce a level of quality that dentists continue to demand."

- *Inside Dental Technology (May 2017)*

Restorations courtesy of Al Hodges, CDT & Brandon Morris Stapleton, DMD

See It in Practice

Dr. Miles Cone and Lucas Lammott chose GC Initial® LiSi Press to perfect Ms. Maine's smile.

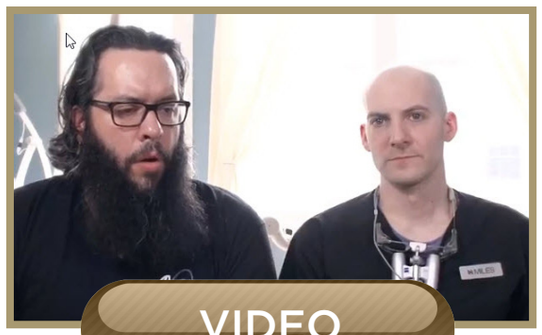
Case

As Ms. Maine 2017, the patient's teeth were seen by many people at very close angles. She was satisfied with her smile, except there was a particular tooth that at certain angles would cast a dark shadow. The treatment plan was a veneer to take away the shadowing.

The patient's lateral tooth had a spot approximately 3/10 mm to 0.5 mm on the canine. It was not exceptionally thin, however the shape was a challenge. Achieving seamless margins to blend on pressed veneers is essential for long-term success.

Producing veneers is a simple process with GC Initial® LiSi Press. The final veneer was layered to give a little bit of depth and warmth.

See the full case here

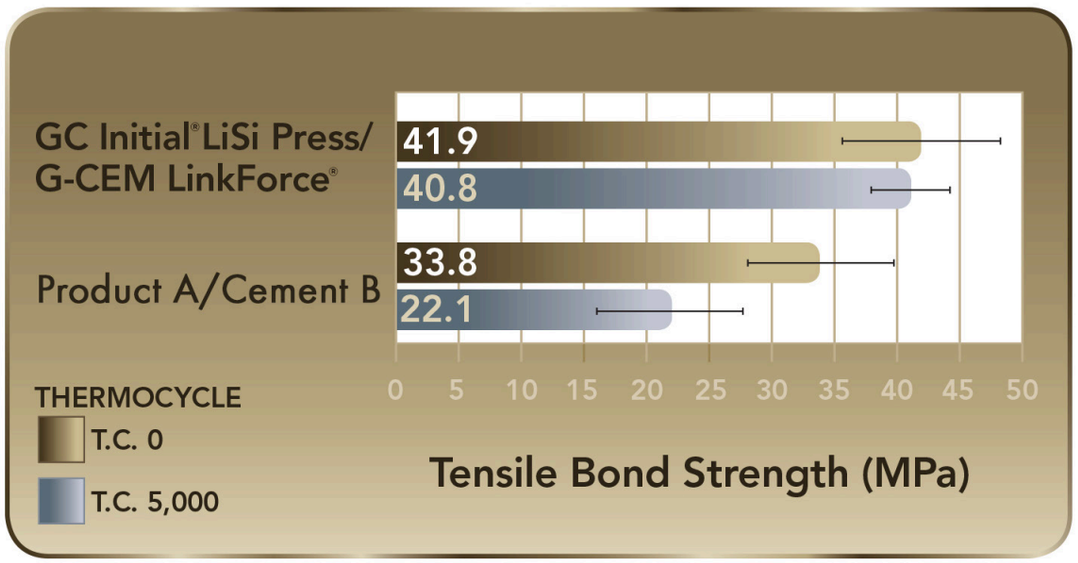


Photos courtesy of Dr Miles Cone

G-CEM LinkForce® "is a really strong, tenacious cement... One of the things that I like about this cement is that it comes with a complimentary try-in paste [in the complete kit]". - Dr. Miles Cone, Prosthodontist and Dental Technician

Stability through Science

With optimized components, developed through innovative manufacturing technology, GC Initial® LiSi Press and G-CEM LinkForce® have revealed exceptional tensile bond strength when used together, versus competitor's systems.



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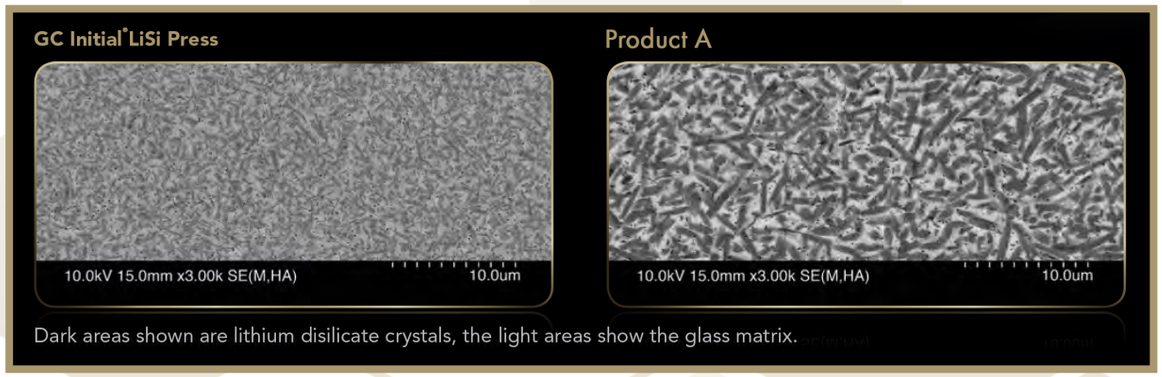
High Density Micronization: What It Means for You

GC Initial® LiSi Press is unique thanks to the development of HDM technology. HDM utilizes equally dispersed lithium disilicate micro-crystals to fill the entire glass matrix rather than using traditional larger size crystals that do not take full advantage of the entire matrix structure. As a result, it is the ultimate combination of strength and esthetics, suitable for all types of dental restorations.



Dark areas shown are lithium disilicate crystals, the light areas show the glass matrix.

Confidence Without Compromise

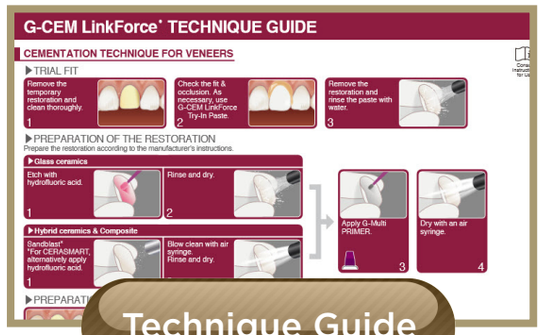
Ultimately, dental laboratories and dentists want products that work: ones that are easy to use, produce reliable and excellent esthetic results, and that will not compromise the long-term dental health of patients. G-CEM LinkForce® and GC Initial® LiSi Press, two products that work together seamlessly, meet those requirements—and more.

G-CEM LINKFORCE®

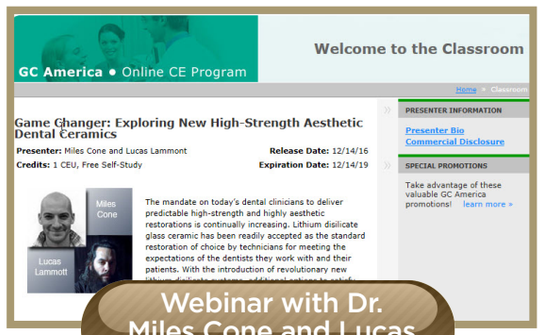
- Truly universal, simplifying inventory and protocols
- Not technique-sensitive
- Excellent viscosity and uniformity of mix
- Longer working times
- Easy to use
- Convenient auto-mix delivery
- Stable over time without esthetic compromises
- Significantly less build-up of marginal plaque
- A dual-cure activator, allowing the light-cured bonding agent to be used in areas where it isn't possible to light cure
- One convenient kit for all restorative procedures, from lithium disilicates, ceramics and hybrid ceramics, as well as zirconia, PFMs and precious metals, glass fiber posts, and veneers

GC INITIAL® LISI PRESS

- Exceptional marginal fit
- Virtually no reaction layer when divested, which allows cleaner presses
- Low abrasion
- Seamless learning curve
- Not technique-sensitive
- Can be fired multiple times while retaining its improved physical properties
- Easier to achieve the opalescence and translucency of a natural tooth
- Safer for the patient: wears down the opposing dentition at a much lower rate



Technique Guide



Webinar with Dr. Miles Cone and Lucas Lammott

About the Company

GC America Inc. is a leading private manufacturer of professional consumable dental care products and one of the fastest growing dental companies in the world. Founded in 1992, we are the wholly owned U.S. subsidiary of GC Corporation, the world's fourth-largest professional dental consumables manufacturer, which has been based in Tokyo, Japan since it was founded in 1921.

We dedicate ourselves to customer needs and deliver the highest quality products because our cross-cultural corporate identity is grounded in a unique philosophy called "Semui," a Japanese term drawn from ancient Buddhist teachings that means to put the needs of others ahead of one's own.

A 2014 recipient of the Deming Prize for total quality management (TQM), GC America is the first U.S. dental company and only the fourth company in the country to earn one of the world's oldest and most widely recognized total quality awards. We believe advancing and supporting the interests of good oral health on a global scale can change lives for the better, and we strive to demonstrate that commitment every day.

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A PERFECT COMBINATION

G-CEM LinkForce® &
GC Initial® LiSi Press

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Restorations courtesy of Myung Joo Shin.

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