Your practice is *our* inspiration.

**Herculite Ultra**  |  Where legacy & advanced technology meet
Ushering in a new era of resin restorative dentistry

After 25 years as the industry standard, we took a powerful, trusted brand and applied our expertise in resin restorative technology and composite innovation to bring you Herculite® Ultra—strong and durable for posterior restorations, excellent esthetics for anterior restorations.

**Features**

Optimal handling, non-slumping.
Superb ease of placement.
Long-lasting polishability. Maintains lifelike luster long after initial restoration.
**Herculite gold standard technology.** Proven 20+ years of experience.
High wear strength and mechanical properties. Long-lasting and durable.
Chameleon-like quality. Superior tooth-blending effect enabled by optimized filler size.

**The Science Behind Herculite Ultra**

**Filler Technology**

**Prepolymerized Filler (PPF)**
Large enough to increase loading, our PPF is a proprietary blend of low-shrinkage resin, barium glass and nanoparticles, so plucking becomes a nonissue.
- Exceptional ease of polish and gloss retention
- Enhanced handling characteristics
- Decreased polymerization shrinkage

**Silica Nanofiller**
(20 – 50 nm)
- Enhanced polish
- Decreased shrinkage
- Optimal handling

**Compare to Other Composites**
Plucking, or natural wear over time, tends to occur faster in restorations with larger particles, decreasing the overall life and esthetics of the restoration.

**Time-Tested Herculite Technology**
The 20+ year chemistry of the Herculite resin matrix results in:
- Exact Vita® shade matching and color stability
- Consistent clinical performance and longevity

**Case images**

- 8-year-old incisal restorations using Herculite. Case image courtesy of Dr. Bruce LeBlanc.
- 13-year-old restoration on bicuspid using Herculite. Case image courtesy of Northwestern University.

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Along with high gloss retention and true Vita® shade match, the light refraction properties of Herculite® Ultra allow single-layer restorations to blend flawlessly with the surrounding tooth structure. The need for multi-layer restorations is eliminated, resulting in a simplified shading system that ultimately enhances esthetics.

Research

Herculite Ultra optimized resin matrix works in harmony with Kerr’s 0.4 micron proprietary filler—as evident in our composite brands Point 4 and Premise—and nanotechnology to create the ideal composite. Three fillers—prepolymerized filler (PPF), nanoparticles (20 – 50 nm), and a submicron hybrid filler (0.4 micron)—work together to achieve the ultimate esthetics and strength. The Herculite resin matrix is now optimized to yield creamy yet sculptable handling.

Gloss Retention of Different Composites

<table>
<thead>
<tr>
<th>Composite</th>
<th>Gloss 60 Degrees (Toothbrush)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herculite® Ultra</td>
<td>34.5</td>
</tr>
<tr>
<td>Tetric EvoCeram®</td>
<td>16.7</td>
</tr>
<tr>
<td>Gradia™ Direct</td>
<td>11.5</td>
</tr>
<tr>
<td>Esthet-X® HD Dentsgly</td>
<td>10.5</td>
</tr>
<tr>
<td>Premise®</td>
<td>8.9</td>
</tr>
<tr>
<td>TPH® 3</td>
<td>7.7</td>
</tr>
</tbody>
</table>

Gloss is measured after cured specimens are toothbrush abraded at 10,000 cycles (350 g pressure, 90 strokes per minute).

Study conducted by Nova University. Data available upon request.

Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load Weight (%)</td>
<td>78</td>
</tr>
<tr>
<td>Flexural Strength (MPa)</td>
<td>135</td>
</tr>
<tr>
<td>Flexural Modulus (MPa)</td>
<td>9400</td>
</tr>
<tr>
<td>Compressive Strength (MPa)</td>
<td>462</td>
</tr>
<tr>
<td>Volumetric Shrinkage (%)</td>
<td>2.7</td>
</tr>
<tr>
<td>Gloss 60 Degrees (Leco)</td>
<td>41</td>
</tr>
<tr>
<td>Gloss 60 Degrees (Toothbrush)</td>
<td>52</td>
</tr>
<tr>
<td>Radiopacity (% Aluminum)</td>
<td>250</td>
</tr>
</tbody>
</table>

Handling Comparison Map

Map was created with input from various clinicians and Kerr R&D.

Your practice is our inspiration.
Complementary Products

Bonding Agents
- OptiBond® All-In-One
- OptiBond® Solo Plus™
- OptiBond FL®

Curing Lights
- Demi™ Plus L.E.D. Light Curing System
- Optilux 501

Flowable Composites
- Vertise™ Flow
- Revolution Formula 2
- Premise™ Flowable

Here’s what clinicians are saying about Herculite Ultra

- 90% of focus group attendees said they would purchase Herculite Ultra over their current composite.
- “Adapts really well, not sticky at all, really sculptable.”
- “Superb for a nanohybrid. Best composite ever.”

Data available upon request.

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