Herculite™ Ultra
Universal Nanohybrid Composite

WHERE LEGACY AND ADVANCED TECHNOLOGY MEET.
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 resistance 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

**Point 4 Filler**

(barium glass filler of 0.4 µm average size)

- Clinically proven durability
- Clinically proven polish

**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.
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-shade restorations is often eliminated, while maintaining a superior esthetic result.

## 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.

### 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>

### Gloss Retention of Different Composites

<table>
<thead>
<tr>
<th>Composite</th>
<th>Gloss 60 Degrees (Toothbrush)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Herculite® Ultra Kerr</td>
<td>34.5</td>
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<tr>
<td>Filtek™ Supreme Plus 3M ESPE</td>
<td>16.7</td>
</tr>
<tr>
<td>Tetric EvoCeram® Iovia</td>
<td>11.5</td>
</tr>
<tr>
<td>Esthet-X® HD Dentsply</td>
<td>10.5</td>
</tr>
<tr>
<td>Grandio® Direct GC America</td>
<td>8.9</td>
</tr>
<tr>
<td>TPH®3 Dentsply</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.

### Handling Comparison Map

Here’s what clinicians are saying about Herculite™ Ultra

90% of focus group attendees said they would purchase Herculite Ultra over their current composite.

“Superb for a nanohybrid. Best composite ever.”

“Adapts really well, not sticky at all, really sculptable.”

*Data from Kerr R&D
ORDER TODAY!

RELATED PRODUCTS

BONDING AGENTS
OptiBond™ Solo Plus™
OptiBond™ XTR
OptiBond™ FL
OptiBond™ All-In-One

CURING LIGHTS
Demi™ Ultra
Demi™ Plus

UNIVERSAL COMPOSITE
Herculite™ Ultra Flow
Premise™
Herculite™ XRV™
Point 4™

SINGLE FILL™
SonicFill™

34333 HERCULITE ULTRA INTRO KIT
10 Herculite Ultra Unidose® Tips (2 g) in A2, 10 Herculite Ultra Unidose Tips (2 g) in A1, 1 Revolution® Formula 2™ Flowable Syringe in A2 (1 g), 10 Revolution Flowable Tips, 1 Large Gray Composite Gun, 20 OptiBond® All-In-One Unidose Tips (3.6 ml), 50 Disposable Applicators

SYRINGE REFILLS:
34337 A1 Enamel
34338 A2 Enamel
34339 A3 Enamel
34447 A3.5 Enamel
34771 A4 Enamel
34340 B1 Enamel
34772 B2 Enamel
35153 B3 Enamel
35154 B4 Enamel
34341 C1 Enamel
34773 C2 Enamel
34774 C3 Enamel
35165 C4 Enamel
34775 D2 Enamel
35155 D3 Enamel
35156 D4 Enamel
35487 A1 Dentin
34342 A2 Dentin
34343 A3 Dentin
35626 A3.5 Dentin
35488 A4 Dentin
35157 B1 Dentin
35489 B3 Dentin
35627 C2 Dentin
35490 C4 Dentin
34344 Light Incisal
34336 XL
35491 XL2

UNIDOSE REFILLS:
34347 A1 Enamel
34348 A2 Enamel
34349 A3 Enamel
34448 A3.5 Enamel
34776 A4 Enamel
34350 B1 Enamel
34777 B2 Enamel
35159 B3 Enamel
35160 B4 Enamel
34351 C1 Enamel
34778 C2 Enamel
34779 C3 Enamel
35166 C4 Enamel
34780 D2 Enamel
35161 D3 Enamel
35162 D4 Enamel
35495 A1 Dentin
34352 A2 Dentin
34353 A3 Dentin
35629 A3.5 Dentin
35496 A4 Dentin
35163 B1 Dentin
35497 B3 Dentin
35630 B4 Dentin
35498 C4 Dentin
35631 D2 Dentin
34354 Light Incisal
34346 XL
35499 XL2