Estelite Universal Flow
Introduction to Flowable Composites

• Flowable composites were introduced as a less viscous material, offering better adaption to the cavity wall
• Flowables can reach areas that are difficult to fill, and prevent air bubbles that could cause post-op sensitivity
• In the US and Canada, flowable composites are mainly used as cavity liners under restorations and to repair small defects in existing restorations
• Typically, flowable composites are available in two viscosities: high flow and low flow
Disadvantages of Flowable Composites

• Traditionally, flowable composites have less filler content than more viscous composites
• Therefore, they tend to exhibit higher wear and shrinkage stress, and have lower strength, making them less suitable for a wider range of indications
• Flowable composites are less packable/sculptable than more viscous composites
Estelite Universal Flow – The Perfect Flow for Strong, Lasting Restorations

Estelite Universal Flow is a flowable composite that addresses all the concerns practitioners have with traditional flowables and has the following benefits:

- Available in three viscosities, providing dentists with the right choices for a variety of indications
- High filler content, to achieve unmatched strength, durability, and esthetics
- Low shrinkage stress
- Easy handling

Estelite Universal Flow Viscosities:

- High Flow: Easy placement, flows well – Syringe only
- Medium Flow: High versatility, less slumping, less runny – Syringe and PLT
- Super low flow: Non-slumping, non-runny, precision stacking – Syringe only
100% Spherical Filler Technology

• Estelite Universal Flow exhibit exceptional esthetics while maintaining excellent physical properties as a result of our revolutionary spherical filler technology.

• With an average particle size of 200 nanometers (supra-nano), the spherical fillers in Estelite Universal Flow are the foundation for delivering simple, lasting and beautiful results.
Estelite Universal Flow’s strength is comparable to universal composites.
Vs. Universal composites
Flexural Strength, Three-Point Bending Test

Estelite Universal Flow’s strength is comparable to universal composites.

- Estelite Universal Flow Super Low
- Estelite Universal Flow Medium
- Estelite Universal Flow High
- Estelite Sigma Quick
- Supreme XTE (Dody)
- Supreme XTE (Enamel)
- Gradia Direct X
- Enamel Plus HFO (Dentine)
- Enamel Plus HFO (Enamel)
- Clearfil Majesty Esthetic
- TPH3
- Tetric EvoCeram
- Grandio

Flexural Strength (MPa)
Estelite Universal Flow also exhibits high wear resistance comparable to Estelite Sigma Quick, and exceeding other leading universal composites:

Low wear!
Recommended Indications

- Direct anterior and posterior restorations
- Cavity base or liner
- Blocking out cavity undercuts before fabricating indirect restorations
- Repair of porcelain/composite

Super Low
- Class II
- Class I
- Class IV

Medium
- Deep Class V
- Wedge-shaped defects
- Incisal Margin

High
- Shallow Class V
- Small Cavity
- Cavity Liner
Shades and Viscosities

- Estelite Universal Flow comes in three viscosities: Super Low, Medium, and High Flow.
- Shades available vary depending on viscosity
- Available in syringe format, Medium Flow is also available in PLT format

**Flowability**

**Shade**

**Super Low**
- 6 shades

**Medium**
- 12 shades

**High**
- 7 shades

**Super Low**
- 6 shades

**High**
- 7 shades

**Medium**
- 12 shades
The Perfect Flow

Estelite Universal Flow comes in three optimal viscosities, providing you with the perfect flow to handle different restorations.
Excellent handling

Estelite Universal Flow is easy to extrude and has a non-sticky consistency with minimal stringiness, resulting in effortless handling.

<table>
<thead>
<tr>
<th>Better</th>
<th>Stickiness</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Low</td>
</tr>
<tr>
<td>Beautiful Flow Plus F00</td>
<td>Estelite Universal Flow</td>
</tr>
<tr>
<td></td>
<td>Super Low, Medium, High</td>
</tr>
<tr>
<td></td>
<td>Venus Diamond Flow</td>
</tr>
<tr>
<td></td>
<td>Filtek Supreme XTE Flow</td>
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<tr>
<td></td>
<td>Estelite Flow Quick (2ml, Metal Tips)</td>
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<tr>
<td></td>
<td>G-aenial Universal Flo (Plastic Tips)</td>
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<tr>
<td></td>
<td>G-aenial Universal Flo (Metal Tips)</td>
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Extrusion Pressure
Minimal Shade Shift

Estelite Universal Flow light-cures in only 10 seconds, and retains its shade color during and after the process, virtually eliminating restoration failures due to shade shifting.

Color and translucency change before and after polymerization
Beautiful Shade Blendability

One composite shade can invisibly blend within several tooth shades, resulting in superior shade match, and even reduced inventory cost.

*Filling test to artificial teeth*

All cavity on various shades of artificial teeth (B1, A1, B2, A2, C1, A3) are filled with ESTELITE UNIVERSAL FLOW A2 shade.
Utilizing 100% spherical fillers, one Estelite Universal Flow shade can blend within several tooth shades.

<table>
<thead>
<tr>
<th>Estelite Universal Flow Shade Matching</th>
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<tbody>
<tr>
<td>SL</td>
</tr>
<tr>
<td>----</td>
</tr>
<tr>
<td>A1</td>
</tr>
<tr>
<td>A2</td>
</tr>
<tr>
<td>A3</td>
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<td>A3.5</td>
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<tr>
<td>A4</td>
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<tr>
<td>A5</td>
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<tr>
<td>B3</td>
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</tbody>
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### HIGH Opacity:
- BW
- OP A2
- OP A3
- OP A4

### HIGH Translucency:
- CE

E = Excellent  V = Very Good  G = Good  = Poor

For Incisal Area Etc.
Natural Looking Restorations

Estelite Universal Flow utilizes 100% spherical filler technology to blend in with surrounding tooth color, resulting in an invisible margin and natural looking restorations.

_A clinical case_

Before

Restored with Estelite Universal Flow Medium A2

After
Exceptional Polishability

Estelite Universal Flow provides unsurpassed gloss with reduced polishing time, reaching over 90% glossiness in only 60 seconds.
High Gloss Retention

Estelite Universal Flow is able to preserve its gloss throughout the lifetime of the restoration.

*Highly preserved gloss even after aging!*
Estelite Universal Flow exhibits high strength, allowing patients to bite with confidence.
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<table>
<thead>
<tr>
<th>Material</th>
<th>Compressive Strength (MPa)</th>
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<tbody>
<tr>
<td>Estelite Universal Flow Low</td>
<td>400</td>
</tr>
<tr>
<td>Estelite Universal Flow Medium</td>
<td>400</td>
</tr>
<tr>
<td>Estelite Universal Flow High</td>
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<tr>
<td>Estelite Flow Quick</td>
<td>300</td>
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<tr>
<td>Filtek Supreme Ultra Flowable</td>
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<tr>
<td>G-aenial Universal Flo</td>
<td>300</td>
</tr>
<tr>
<td>Clearfil Majesty ES Flow</td>
<td>300</td>
</tr>
<tr>
<td>Beautifil Flow Plus F00</td>
<td>300</td>
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<tr>
<td>Tetric Evo Flow</td>
<td>300</td>
</tr>
<tr>
<td>Herculite Ultra Flow</td>
<td>300</td>
</tr>
<tr>
<td>Venus Diamond Flow</td>
<td>300</td>
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</tbody>
</table>
Excellent Wear Resistance

Estelite Universal Flow provides leading wear and abrasion resistance compared to competitors, resulting in restorations that last.

![Composite Wear (mm3) and Teeth Abrasion [μm] comparison chart]

- Low wear!
- Low abrasion!
Low Shrinkage Stress

Estelite Universal Flow provides lower shrinkage stress than competitors, resulting in greater patient comfort.
Resistance to Staining

Estelite Universal Flow resists staining better than competitors, resulting in restorations that stay esthetically pleasing.

- **Estelite Universal Flow Low**
- **Estelite Universal Flow Medium**
- **Estelite Universal Flow High**
- **Estelite Flow Quick**
- **Filtek Supreme Ultra Flowable**
- **Clearfil Majesty ES Flow**
- **Beautifil Flow Plus F00**
- **Tetric Evo Flow**
- **Herculite Ultra Flow**
- **Venus Diamond Flow**

Minimum level of staining!
Summary

Three optimal viscosities, providing you with the perfect flowability for your needs.

Easy to extrude and non-sticky, non-stringy consistency for effortless restorations.

Exhibits high strength, providing low wear and abrasion for longer lasting restorations.

Beautiful shade blendability, exceptional polishability, and high gloss retention for more natural restorations.

Low shrinkage stress for greater patient comfort.