INVENTIVE DENTAL SOLUTIONS

Tokuyama Corporation, our parent company, has a 90-year history as a diversified chemical producer. Over the years, the product range has expanded to include a wide array of special chemicals, including dental products. This department eventually became known as Tokuyama Dental Corporation.

Tokuyama began developing and manufacturing dental materials 30 years ago. Tokuyama Dental Corporation’s philosophy, inventive dental solutions, is our commitment to create quality products and provide solutions for the dentist. Our innovative chemical technologies, which are inherited from our parent company, continue to grow independently. As we substantiate ourselves as an industry leader, our forward-thinking researchers are developing new technology to revolutionize the global dental industry.

Tokuyama Dental Corporation has an established track record for its retainer materials. TOKUYAMA REBASE II and SOFRELINER. These products command a majority of the market share in their categories. We also produce bonding agents, composites and cements. In 2010, Tokuyama Dental Corporation was awarded by THE DENTAL ADVISOR for Top Product Awards in 4 categories: Top 7th-generation Bonding Agent, Top Composite, Top Flowable Composite and Top Soft Denture Reline Material.

We want to make it easy to purchase our products. Please contact your dealer for purchasing. Tokuyama Dental Corporation is dedicated to providing superior customer service. If you have any questions, please contact us.
**ESTELITE Σ QUICK**

**Universal Restorative Resin Composite**

**INDICATIONS**
- Anterior and posterior restorations
- Composite veneer
- Diastema closure
- Composite/porcelain repair

**BENEFITS**
- Extended working time (90 sec.)
- Reduced curing time (10 sec.)
- Outstanding polishability
- High gloss retention over time
- Wide shade matching range “Chameleon effect”
- High wear resistance
- Less wear to opposing teeth
- Good radiopacity
- Minimal shrinkage
- Available in 20 shades
- Provided in both SYRINGE and PLT (Pre Loaded Tip)

**TECHNICAL INFORMATION**

**Wear**

<table>
<thead>
<tr>
<th>Material</th>
<th>Decrease of volume (μm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Venus</td>
<td>0.00</td>
</tr>
<tr>
<td>Premise</td>
<td>2.00</td>
</tr>
<tr>
<td>Tetric EvoCeram</td>
<td>4.00</td>
</tr>
<tr>
<td>Esthet-X</td>
<td>6.00</td>
</tr>
<tr>
<td>Supreme XT</td>
<td>8.00</td>
</tr>
<tr>
<td>Estelite Σ Quick</td>
<td>10.00</td>
</tr>
</tbody>
</table>

**Shrinkage (Linear%)**

<table>
<thead>
<tr>
<th>Material</th>
<th>Linear shrinkage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Venus</td>
<td>0.0</td>
</tr>
<tr>
<td>Premise</td>
<td>2.0</td>
</tr>
<tr>
<td>Tetric EvoCeram</td>
<td>4.0</td>
</tr>
<tr>
<td>Esthet-X</td>
<td>6.0</td>
</tr>
<tr>
<td>Supreme XT</td>
<td>8.0</td>
</tr>
<tr>
<td>Estelite Σ Quick</td>
<td>10.0</td>
</tr>
</tbody>
</table>

**Physical Properties**

- Flexural Strength: 115 MPa
- Flexural Modulus: 8.7 GPa
- Compressive Strength: 400 MPa

**PRODUCTS PACKAGES AVAILABLE**

**SYRINGE SYSTEM KIT:** 1 Syringe (3.8g) of each shade: A1, A2, A3, A3.5, OA3, OPA2, 1 Syringe ESTELITE FLOW QUICK (1.8g) of each shade: A2, A3, OA3, 27 tips, 1 Bottle TOKUYAMA BOND FORCE (5mL), Dispensing well, 50 applicators, Shade guide

**PLT INTRO KIT:** 5 PLTs (0.2g each) of each shade: A1, A2, A3, OA2, OPA2, 1 Bottle TOKUYAMA BOND FORCE (1mL), Dispensing well, 25 applicators, Shade guide

**SYRINGE INTRO KIT:** 1 Syringe (3.8g) of each shade: A1, A2, A3, A3.5, OA2, OPA2, 1 Bottle TOKUYAMA BOND FORCE (1mL), Dispensing well, 25 applicators, Shade guide

**SYRINGE KIT:** 1 Syringe (3.8g) of each shade: A2, A3, OA3

**PLT MINI KIT:** 10 PLTs (0.2g each) of each shade: A2, A3, 5 PLTs (0.2g each) of each shade: A1, A3.5, OA3, OPA2, 1 Bottle TOKUYAMA BOND FORCE (1mL), Dispensing well, 25 applicators, Shade guide

**PLT REFILL:** 20 PLTs (0.2g each)

**SYRINGE REFILL:** 1 Syringe (3.8g)

**SHADE GUIDE**

**AVAILABLE SHADES (20 shades)**

**Standard**

<table>
<thead>
<tr>
<th>Shade</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
</tr>
<tr>
<td>A2</td>
</tr>
<tr>
<td>A3</td>
</tr>
<tr>
<td>A3.5</td>
</tr>
<tr>
<td>A4</td>
</tr>
<tr>
<td>A5</td>
</tr>
<tr>
<td>B1</td>
</tr>
<tr>
<td>B2</td>
</tr>
<tr>
<td>B3</td>
</tr>
<tr>
<td>B4</td>
</tr>
<tr>
<td>C1</td>
</tr>
<tr>
<td>C2</td>
</tr>
<tr>
<td>C3</td>
</tr>
<tr>
<td>C4</td>
</tr>
</tbody>
</table>

**Bleach**

<table>
<thead>
<tr>
<th>Shade</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
</tr>
<tr>
<td>B2</td>
</tr>
<tr>
<td>B3</td>
</tr>
</tbody>
</table>

**Opalescent**

<table>
<thead>
<tr>
<th>Shade</th>
</tr>
</thead>
<tbody>
<tr>
<td>OA1</td>
</tr>
<tr>
<td>OA2</td>
</tr>
<tr>
<td>OA3</td>
</tr>
</tbody>
</table>

**Opaque**

<table>
<thead>
<tr>
<th>Shade</th>
</tr>
</thead>
<tbody>
<tr>
<td>OP1</td>
</tr>
<tr>
<td>OP2</td>
</tr>
</tbody>
</table>

**Source:** Tokuyama Dental R&D
**Not a registered trademark of Tokuyama Dental**

**SEM Images of Filler Shape**

**Estelite Σ Quick**

**Esthet-X**

**Optimal Handling**

**Good Radiopacity**

**Diastema Closure**

**Case courtesy of Toshio Kamamura, DDS**
ESTELITE FLOW QUICK

Esthetic and Quick-Curing Flowable Resin Composite

INDICATIONS
- Direct anterior and posterior restorations (particularly for small/shallow/tunnel shaped cavities)
- As the first layer of direct restorations
- Blocking out cavity undercuts before fabricating indirect restorations
- Repair of porcelain/composite

BENEFITS
- Very fast curing
- Extended working time (90 sec.)
- Outstanding esthetics
- Superior mechanical strengths
- Excellent polishability
- Very low shrinkage
- Exceptional surface gloss
- Wide shade matching range/“Chameleon effect”
- Excellent handling
- Optimal radiopacity
- Minimal color change after curing
- More shade variations (17 shades)

Physical Properties
- Flexural Strength: 156 MPa
- Flexural Modulus: 8.5 GPa
- Compressive Strength: 391 MPa

Source: Tokuyama Dental R&D

PRODUCTS PACKAGES AVAILABLE
3 SYRINGE KIT (1.8g x 3):
1 Syringe (1.8g) of each shade: A2, A3, A3.5
3 SYRINGE KIT (3.6g x 3):
1 Syringe (3.6g) of each shade: A2, A3, A3.5
SYRINGE (1.8g) Refill: 1 Syringe (1.8g)
SYRINGE (3.6g) Refill: 1 Syringe (3.6g)

PALFIQUE ESTELITE LV

Flowable Resin Composite

INDICATIONS
- See ESTELITE FLOW QUICK

BENEFITS
- Offering 3 different flowabilities
- Outstanding polishability, glossiness and color-matching
- High wear resistance
- Optimal radiopacity

PRODUCTS PACKAGES AVAILABLE
High Flow SYRINGE Refill: 1 Syringe (3g)
Medium Flow SYRINGE Refill: 1 Syringe (3g)
Low Flow SYRINGE Refill: 1 Syringe (3g)
ESTELITE POSTERIOR
Resin Based Dental Restorative Material for Posterior

INDICATIONS
- Direct posterior restorations including the occlusal surface
- Repair of porcelain/composite

BENEFITS
- Ideal handling
  - Optimal stiffness, easy to shape, non-sticky
- Prominent physical strength
  - High flexural and compressive strength
- Exclusive posterior shade availability
- Quick curing time - 10 seconds with a halogen light
- Ample working time

TECHNICAL INFORMATION
Flexural Strength**

<table>
<thead>
<tr>
<th>Product</th>
<th>Flexural Strength (MPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESTELITE POSTER</td>
<td>209</td>
</tr>
<tr>
<td>Filtek Silorane*</td>
<td>210</td>
</tr>
<tr>
<td>Filtek P60*</td>
<td>208</td>
</tr>
<tr>
<td>Prodigy Condensable*</td>
<td>206</td>
</tr>
<tr>
<td>Quixx*</td>
<td>200</td>
</tr>
<tr>
<td>Solitaire2*</td>
<td>204</td>
</tr>
<tr>
<td>Gradia Direct Posterior*</td>
<td>202</td>
</tr>
</tbody>
</table>

Compressive Strength 443 MPa

** Source: Tokuyama Dental R&D
Not a registered trademark of Tokuyama Dental Corporation.

AVAILABLE SHADES (4 shades)
- PA1
- PA2
- PA3
- FCE

PRODUCTS PACKAGES AVAILABLE
- SYRINGE (4.2g) Refill: 1 Syringe (4.2g)

TOKUYAMA BOND FORCE
One Component Self-Etching Light-Cured Dental Adhesive

INDICATIONS
- Bonding of light- or dual-cured composite material to:
  - cut/uncut enamel,
  - cut/uncut dentin,
  - fractured porcelain/composite for repair.

BENEFITS
- Outstanding bond strength
- Designed for cut/uncut enamel and dentin
- Only 1 application required
- No etching, No rinsing
- No mixing
- Fluoride releasing
- Thin film thickness
- Less technique sensitive
- Available in both bottle and unit dose

TECHNICAL INFORMATION
Microtensile Bond Strength (MPa) to Dentin**

** Source: Dr. Rick Walter, Chapel Hill, North Carolina
Not a registered trademark of Tokuyama Dental Corporation.

CLINICAL PROCEDURE
1. Dispense
2. Verify
3. Apply TOKUYAMA BOND FORCE
4. Then rub the margins
5. Light cure

PRODUCTS PACKAGES AVAILABLE
- Kit: 1 Bottle (5mL), 50 Disposable applicators (superfine), Dispensing well
- Refill: 1 Bottle (5mL)
- Standard Kit: 50 Unit doses (0.1mL), 50 Disposable applicators (superfine)
ONE-UP BOND F Plus
Self-Etching & Light-Cured Dental Adhesive

INDICATIONS
- Direct light cured composite restorations
- Application on exposed cervical dentin and the root surface

BENEFITS
- Visual confirmation of each step with built-in color coding
- Single application
- Fluoride releasing
- No etching, rinsing or drying
- New dispensing system

TECHNICAL INFORMATION
Generate high Bond Strength for either thin or thick bonding layers

Stable and high Bond Strength and excellent Durability

<table>
<thead>
<tr>
<th>Thermal Cycle 3,000 times (4°C — 60°C)</th>
<th>Enamel</th>
<th>Dentin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Bonding Strength</td>
<td>20.7MPa</td>
<td>24.2MPa</td>
</tr>
</tbody>
</table>

- Compressive Strength: 348 MPa
- Flexural Strength: 109 MPa
- Film Thickness: 10 μm
- Tensile Bond Strength
  - Enamel: 24.7 MPa
  - Dentin: 17.3 MPa
  - Precious Metal: 22.9 MPa
  - Ceramic: 23.1 MPa

CLINICAL PROCEDURE
1. Mixing A&B
2. Application (Rub for 10sec)
3. Light cure

PRODUCTS PACKAGES AVAILABLE
Kit: Bonding Agent A (5mL), Bonding Agent B (5mL), Dispenser, Mixing well, 50 Disposable applicator tips, Applicator handle
Refill: Bonding Agent A: Bottle (5mL), Dispenser
Bonding Agent B: Bottle (5mL)
Disposable Applicator Tip & Handle Set: 500 Disposable applicator tips, 4 Applicator handles

BISTITE II DC
Self-Etching & Dual-Cured Adhesive Resin Cement

INDICATIONS
- Cementation and bonding of precious metal, non-precious metal, cured composite resin, porcelain and ceramic prosthesis
- Repair of fractured porcelains fused to metal crowns and all ceramic restorations
- Cementation of acid etch bridges
- Cementation of resin composite core post systems and metal post and cores

BENEFITS
- Outstanding bond strength
- Low film thickness (10μm)
- Multiple shades availability
- Easy excess removal
- All inclusive kit
- Self-etching
- Eliminate tin plating

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Compressive Strength</th>
<th>348 MPa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexural Strength</td>
<td>109 MPa</td>
</tr>
<tr>
<td>Film Thickness</td>
<td>10 μm</td>
</tr>
<tr>
<td>Tensile Bond Strength</td>
<td></td>
</tr>
<tr>
<td>Enamel</td>
<td>24.7 MPa</td>
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<td>Dentin</td>
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<td>Precious Metal</td>
<td>22.9 MPa</td>
</tr>
<tr>
<td>Ceramic</td>
<td>23.1 MPa</td>
</tr>
</tbody>
</table>

PRODUCTS PACKAGES AVAILABLE
Kit (Clear, Dentin or Ivory shade):
- Bistite II Paste (A&B)/7g (3.5g each), Primer 1A (5mL), Primer 1B (5mL), Primer 2 (5mL), Air Barrier (6mL), TOKUSO CERAMIC PRIMER (A&B, 1mL each), METALTITE (1mL), Mixing pad, Spatula, Disposable brush & handle, Air Barrier dispensing tips
Refill: Paste (Clear, Dentin or Ivory): Syringe (A&B)/7g (3.5g each), Primer 1A: Bottle (5mL), Primer 1B: Bottle (5mL), Primer 2: Bottle (5mL), Air Barrier: Syringe (6mL) (with Dispensing tip x 50), Air Barrier dispensing tip: 50 tips, TOKUSO CERAMIC PRIMER (A&B): Primer A&B (5mL each), METALTITE: Bottle (5mL)

AVAILABLE SHADES (3 shades)
Clear, Dentin, Ivory
**METALTITE**
Primer For Bonding Precious Metal To Resin

**CLINICAL APPLICATIONS**
- Cementation of precious metal inlays, onlays, crowns, bridges etc.
- Cementation of precious metal post and cores
- Repair of precious metal bonded porcelain in the mouth
- Repair of precious metal based dentures before acrylic is applied on the broken area
- Bonding of opaque resin to a precious metal base in fabricating a resin face crown indirectly or directly in the mouth

**BENEFITS**
- Elimination of tin plating
- Greatly improves bond between resins and precious metals

**INDICATIONS**
- Temporary fixation of loose teeth
- Cementation of precious/non-precious metal crowns, inlays, onlays and bridges
- Cementation/repair of porcelain fused to precious metals (PFM)
- Cementation of precious metal posts and cores
- Cementation of all ceramic/porcelain/cured composite crowns, inlays, onlays, bridges and veneers

**PRODUCTS PACKAGES AVAILABLE**
- METALTITE: Bottle (5mL)
- TOKUSO CERAMIC PRIMER: Primer A&B (5mL each)

**TOKUSO CERAMIC PRIMER**
Primer to enhance bonding between ceramics and resins

**CLINICAL APPLICATIONS**
- Repair of ceramic restorations
- Cementation of ceramic restorations

**BENEFITS**
- Greatly improves adhesion between ceramic and resin
- Contains a silane coupling agent

**PRODUCTS PACKAGES AVAILABLE**

**TOKUYAMA M-Bond**
Self-etching Adhesive Resin Cement

**INDICATIONS**
- Permanent cementation of porcelain fused to metal (PFM) crowns and bridges
- Cast crowns and bridges with resin facings
- Metal inlays, onlays, crowns and bridges
- Cast posts

**BENEFITS**
- Excellent adhesion to precious metal and teeth
- Easy clean-up
- Easy handling
- Low water sensitivity
- Fluoride releasing
- Thin film thickness

**PRODUCTS PACKAGES AVAILABLE**
- Kit: Powder (Clear, 3g), Powder (Ivory, 3g), Liquid (8mL), Primer A (3mL), Primer B (3mL), Mixing dish, Powder measuring spoon, Spatula, 2 Brush handles, 50 Disposable brush tips, 10 Disposable brush tips for Brush-on technique
- Refill: Powder Clear/Ivory (3g), Liquid (8mL), Primer A (3mL), Primer B (3mL), Disposable brush tip: 100 tips
- Disposable brush tip for Brush-on technique: 100 tips with a handle

**TOKUYAMA IONOTITE F**
Self-Adhesive Composite Ionomer Luting Cement

**INDICATIONS**
- Permanent cementation of:
  - porcelain fused to metal (PFM) crowns and bridges
  - cast crowns and bridges with resin facings
  - metal inlays, onlays, crowns and bridges
  - cast posts

**BENEFITS**
- Elimination of tin plating
- Greatly improves bond between resins and precious metals

**PRODUCTS PACKAGES AVAILABLE**
- Refill: Powder (20g), Liquid (6.4mL), Powder measuring scoop, Mixing pad
- Refill: Powder (20g), Liquid (6.4mL)

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* Source: Tokuyama Dental R&D

**Tensile Bond Strength**

<table>
<thead>
<tr>
<th>Material</th>
<th>Metaltite</th>
<th>M-Bond</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enamel</td>
<td>24.6 MPa</td>
<td>12.0 MPa</td>
</tr>
<tr>
<td>Dentin</td>
<td>21.0 MPa</td>
<td></td>
</tr>
<tr>
<td>Precious Metal</td>
<td>22.6 MPa</td>
<td>8.7 MPa</td>
</tr>
<tr>
<td>Porcelain</td>
<td></td>
<td>18.0 MPa</td>
</tr>
</tbody>
</table>
TOKUYAMA SHIELD FORCE PLUS
Protective Sealant for Treatment of Hypersensitive Dentin

INDICATIONS
- Treatment of hypersensitive dentin
- Reduction of abrasion and erosion of exposed cervical dentin
- Alleviation and/or prevention of tooth sensitivity after tooth preparation for direct and indirect restorations

BENEFITS
- Quick and effective treatment of hypersensitive dentin
- Durable coating on exposed dentinal tubules
- Superior sealing of prepared tooth
- Simple procedure
- Thin film thickness

CLINICAL PROCEDURE
1. Dispenser
2. Mixing
3. Application
4. Light cure for 10 sec

PRODUCTS PACKAGES AVAILABLE
Kit: Bottle (3mL), 25 Disposable applicators (superfine), Dispensing well
Refill: Bottle (3mL)

TOKUYAMA REBASE II
Chairside Hard Denture Reline Material

INDICATIONS
- Hard denture relining
- Partial denture repairs

BENEFITS
- Lower chemical irritation
- Lower heat generation
- Easier polishing
- Durability

CLINICAL PROCEDURE
1. Checking the adaptation
2. Removal of the denture surface
3. Application of ADHESIVE
4. Application of the resin
5. Insertion of the denture
6. Muscle treatment
7. Withdrawal
8. Immersion in TOKUSO RESIN HARDENER
9. Modifying and polishing
10. Checking the adaptation

STANDARD HANDLING TIME

PRODUCTS PACKAGES AVAILABLE
Kit (Normal or Fast): Powder (80g), Liquid (50mL), Adhesive (15mL), Measuring cup, Dropper, Rubber cup, Spatula, 2 Plastic cups, 2 Brushes, TOKUSO RESIN HARDENER II, Spoon
Refill: Powder Normal/Fast (80g), Liquid Normal/Fast (50mL), Adhesive (15mL), TOKUSO RESIN HARDENER II (48g)
SOFRELINER TOUGH M(Medium)/S(Soft)

Silicone-based soft denture liner

INDICATIONS
- Pain caused by sharp ridges of alveolar bone and atrophy of mucosa
- Poor retention caused by extreme ridge atrophy
- Major undercuts or maxillary/mandibular tori
- Retention of over dentures before the final attachment is placed
- Temporary relining or tissue conditioning

TECHNICAL INFORMATION

Softness

Tips for Better Adhesion

Removal of the margin

Adhesive Durability Test

STANDARD HANDLING TIME

PRODUCTS PACKAGES AVAILABLE

Kit (M): Paste (base/27g and catalyst/27g), Primer (10mL), Drip-Cap for Primer, 10 Mixing tips XS, Spatula, Brush, Plastic cup, Shape adjustment point (White), Finishing point (Brown)

Kit (S): Paste (base/27g and catalyst/27g), Primer (10mL), Drip-Cap for Primer, 10 Mixing tips XS, Spatula, Brush, Plastic cup, Coarse point (Black), Finishing wheel (Brown)

Refill: Paste M/S (base/27g and catalyst/27g), Primer (10mL), Mixing tips XS (50 pcs), Mixing tip S (50 pcs), Shape adjustment point (White), 3 pcs, for M) Finishing point (Brown, 6 pcs, for M), SOFRELINER TOUGH S FINISHING SYSTEM (Coarse Point (Black), 5 Finishing wheel)

SOFRELINER MS/S

Silicone-based soft denture liner

INDICATIONS
- Pain caused by sharp ridges of alveolar bone and atrophy of mucosa
- Poor retention caused by extreme ridge atrophy
- Major undercuts or maxillary/mandibular tori
- Retention of over dentures before the final attachment is placed

STANDARD PROCEDURE

Removal of the denture surface to be relined

Application of Primer

Application of Paste

Intraoral insertion, gentle muscle treatment and 5 minutes set

Completion

STANDARD HANDLING TIME

PRODUCTS PACKAGES AVAILABLE

Kit MS (Medium Soft)/S (Soft): Paste (base/27g and catalyst/27g), Primer (10mL), 5 Mixing tips XS, 5 Mixing tips S, Spatula, 2 Brushes, 2 Plastic cups, Steel bur T-101, 5 Finishing wheels

Refill: Paste M/S (base/27g and catalyst/27g), Primer (10mL), Mixing tip XS (50 pcs), Mixing tip S (50 pcs), Softreliner Finishing System (1 Steel bur, 5 Finishing wheels)
**SILICONE REMOVER**
Agent for Removing Silicone-based Reliner from Acrylic Denture

**INDICATIONS**
- Removal of old silicone denture reliner
- Removal of silicone rubber impression materials from the impression resin trays

**BENEFITS**
- Ease of use
- Removes old silicone reliner from the acrylic denture easily
- Works fast and saves time when removing old denture reliner
- No mess, unlike when grinding the material

**PRODUCTS PACKAGES AVAILABLE**
- Bottle (7mL)

---

**TOKUSO REBASE MR. BOND**
Metal Primer for Self-Curing Acrylic Resin

**CLINICAL APPLICATIONS**
- Refining of metal plate dentures
- Bonding of self-curing acrylic resins with non-precious metals

**BENEFITS**
- Strong adhesion
- Enables relining of metal dentures with acrylic denture liners

**PRODUCTS PACKAGES AVAILABLE**
- Kit: Bottle (5.5mL), Plastic cup, 2 Brushes