B.J.M. Laboratories Ltd. (B.J.M.) was established in 1992 for the purpose of developing and manufacturing innovative state of the art dental materials.

B.J.M. produces a complete line of Dental Adhesives, Resin Cements, Composite and Core Build Up materials, Temporary Crown and Bridge materials, Implant Cements, Endodontic Sealers and a wide range of Orthodontic Materials, all of which are distributed extensively in the United States, Europe, Asia and South America. B.J.M. also supplies its products under private label for multinational distributors and manufacturers throughout the world.

B.J.M. is committed to the quality of its products. The ISO 9001:2008, EN ISO 13485:2012, and MDD 93/42/EEC certification were awarded to our quality assurance system since 1997. Such an approval enables us to market our products within the EEC bearing the CE mark. With “Quality through Research and Development” as its motto, B.J.M. developed rapidly.

Over the last few years we have witnessed an exciting revolution in the field of dental materials. Procedure that just yesterday seemed unrealistic has become feasible. Dental procedures are being constantly modified and adopted, all of which is oriented to make the dentist life easier and more efficient.

Our R&D group is in a constant search for new knowledge and is pioneering the way, by incorporating tomorrow’s science into today’s work. Already the most spoken about topics in the scientific community, Nano-technology and Dendritic polymer chemistry, were incorporated into our line of Adhesives, Cements and Composites.

Numerous patents have been registered and our research results are being published and shared with the scientific community.

B.J.M. is now introducing a new line of Self-Etching dental materials, Crown and Bridge temporary materials, Endodontic Sealer and a Family of Orthodontic Materials all of which exhibit outstanding physical and mechanical properties.

Sincerely,

Dr. Barry Zalsman

General Manager
BONDING AGENTS and SURFACE TREATMENT
INDICATIONS
• Direct composite restorations.
• Core Build-Up.
• Adhesive cementation of posts, crowns & bridges, including inlays and onlays.

PROPERTIES
• 5th generation dentin/enamel-bonding agent
• Combines Primer and Adhesive into a single component for ease of application.
• Compatible with all common dental etching materials and forms an excellent bond with dentin and enamel, any self-cured, visible light-cured or dual-cured.
• Composite, Compomer restorative material and with Composite Resin Cements.
• The colloidal dispersed, spherical, sub-micron glass particles increase adhesion and enhances durability.
• Forms the essential hybrid zone with dentin.

SCIENTIFIC PAPERS
2. A Laboratory Evaluation of the Shear Bond Strength of BIM Primer/Adhesive and Prime and Bond 2.1 to Dentin, Prof. M. Latta, Creighton University School of Dentistry, Omaha, Nebraska, 1997.
5. ADAPT Report, 1996.
6. Core Build-Up and Adhesive Incompatibility, Volume 24, Issue 6, June 2000, CRA.
10. Core Build-Up and Adhesive Compatibility, Volume 27, Issue 4, April 2003, CRA.
PACKAGING & ORDER INFORMATION

Item # 100222 - 1 Bottle 2ml of PRIMA 2000
Item # 100224 - 1 Bottle 4ml of PRIMA 2000
Item # 100225 - 1 Bottle 5ml of PRIMA 2000
Item # 100227 - 1 Bottle 7ml of PRIMA 2000
Item # 100230 - 1 Bottle 10ml of PRIMA 2000

TECHNICAL DATA

Shear Bond Strength to etched enamel > 20 MPa
Shear Bond Strength to etched dentin > 14 MPa
pH ................................................................. 6.5
Shelf Life ...................................................... 2 Years
Excellent wetability and penetration
in to the dentin tubules
Forms the essential Hybrid Zone

RELATED PRODUCTS

Q-Etch  Q-Etch UF  Auto Cure Activator  High-Q-Bond  Q-Core  Zirconite
INDICATIONS
- Direct composite restorations.
- Core Build-Up.
- Adhesive cementation of posts, crowns & bridges, including inlays and onlays.

PROPERTIES
- 6th generation, self-etching bonding system.
- Consists of an Hydrophilic, water-based, Self-Etching Primer and a lightactivated bonding agent.
- The colloidal dispersed, spherical, sub-micron glass particles increase adhesion and enhances durability.
- Forms an excellent bond with dentin and enamel, any self-cured, visible lightcured or dual-cured Composite, Compomer restorative material and with Composite Resin Cements.
- Utilizes a moderately acidic and hydrophilic Primer to partially solubilized and penetrate the smear layer into the dentin tubules to form resin tags.
- In the case of enamel, the Primer produces a significant pattern with enhanced surface area, leading to improved enamel bonding.

SCIENTIFIC PAPERS


3. A Laboratory Evaluation of the Shear Bond Strength of Composite Resin to Dentin and Enamel Using “Self-Etching” Adhesive Systems, Prof. M. Latta, Creighton University School of Dentistry, Omaha, Nebraska, 2006.


PACKAGING & ORDER INFORMATION

PRIMA QUICK Kit:
Item # 100200
• 1 Bottle 10ml of PRIMA Quick Prime
• 1 Bottle 10ml of PRIMA Quick Bond
• 50 PRIMA Quick Prime Green Applicators
• 50 PRIMA Quick Bond Orange Applicators
• 1 Dappan Dish

TECHNICAL DATA
Shear Bond Strength to etched enamel > 25 MPa
Shear Bond Strength to etched dentin > 20 MPa
pH of Primer / Bond 1.9 / 6.5
Shelf Life 2 Years
Excellent wetability and penetration into the dentin tubules
Forms the essential Hybrid Zone

RELATED PRODUCTS

PRIMA Quick Prime Refill
• Item # 100212 - 1 Bottle 2ml of PRIMA Quick Prime
• Item # 100214 - 1 Bottle 4ml of PRIMA Quick Prime
• Item # 100215 - 1 Bottle 5ml of PRIMA Quick Prime
• Item # 100217 - 1 Bottle 7ml of PRIMA Quick Prime
• Item # 100218 - 1 Bottle 8ml of PRIMA Quick Prime
• Item # 100210 - 1 Bottle 10ml of PRIMA Quick Prime

PRIMA Quick Bond Refill
• Item # 1002202 - 1 Bottle 2ml of PRIMA Quick Bond
• Item # 1002204 - 1 Bottle 4ml of PRIMA Quick Bond
• Item # 1002205 - 1 Bottle 5ml of PRIMA Quick Bond
• Item # 1002207 - 1 Bottle 7ml of PRIMA Quick Bond
• Item # 1002208 - 1 Bottle 8ml of PRIMA Quick Bond
• Item # 100220 - 1 Bottle 10ml of PRIMA Quick Bond

Auto Cure Activator  Q-Core  High-Q-Bond  Porcelain Fix  Zirconite
**INDICATIONS**
- Direct composite restorations.

**PROPERTIES**
- 7th generation, self-etch, 1 component bonding agent.
- Combines Etch, Primer and Adhesive into a single component for ease of application.
- Delivers high bonding values to dentin and enamel.
- Utilizes the latest advancements in nano-technology and dendritic polymer incorporated chemistry to form an excellent bond with dentin and enamel and visible light-cured Composite.
- Forms the essential hybrid zone on dentin.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shear Bond Strength to un-etched dentin</td>
<td>&gt; 25 MPa</td>
</tr>
<tr>
<td>Shear Bond Strength to un-etched enamel</td>
<td>&gt; 30 MPa</td>
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<tr>
<td>Excellent wetability and penetration in to the dentin tubules</td>
<td></td>
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<tr>
<td>Forms the essential Hybrid Zone</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>3.0</td>
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<tr>
<td>Type of Cure</td>
<td>Light Cured</td>
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<tr>
<td>Filler Weight</td>
<td>3.0%</td>
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<tr>
<td>Refrigeration Required</td>
<td>No</td>
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<tr>
<td>Number of Steps</td>
<td>3</td>
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<tr>
<td>Total Time</td>
<td>60 sec</td>
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<tr>
<td>Shelf Life</td>
<td>2 Years</td>
</tr>
</tbody>
</table>

**SCIENTIFIC PAPERS**

**PACKAGING & ORDER INFORMATION:**
- **Item # 100240**
  - 1 Bottle 4ml of Prima 1
- **Item # 100241**
  - 1 Bottle 4 ml of Prima 1
  - 50 Applicators
INDICATIONS
Self-curing of PRIMA 2000 and PRIMA Quick Bond in:
• Light-inaccessible procedures
• Adhesive cementation of crown & bridge including inlays and onlays

PROPERTIES
Chemical activator for use with Prima 2000 and Prima Quick Bond.

SCIENTIFIC PAPERS
2. A Laboratory Evaluation of the Shear Bond Strength of BJM Primer/Adhesive and Prime and Bond 2.1 to Dentin, Prof. M. Latta, Creighton University School of Dentistry, Omaha, Nebraska, 1997.

PACKAGING & ORDER INFORMATION
Item # 100061 - 1 Bottle 2ml of Auto-Cure Activator
Item # 100064 - 1 Bottle 4ml of Auto-Cure Activator
Item # 100060 - 1 Bottle 7ml of Auto-Cure Activator

TECHNICAL DATA
Shear Bond Strength to dentin when used with PRIMA 2000 / PRIMA QUICK > 18 MPa
Shelf Life > 2 Years
Q E T C H  ™
Q E T C H  U F  ™
Etching gel - phosphoric acid 37%

INDICATIONS
• Any procedure that requires etching

PROPERTIES
• 37% Phosphoric Acid Etch Gel with excellent viscosity for precise application.
• Stays put and does not run.
• Washes off easily & quickly.
• Has excellent water solubility.
• Easy to use.
• Available in 1.2 ml or 12 g syringes.
• Applicators tips are angled to facilitate easy and accurate placement of the gel even in distal & lingual composite preparations.
• Blue Visible color.
• Disposable tips save time and are more sanitary.
• Available in 2 consistencies:
  • Regular viscosity
  • Unfilled (UF) viscosity

PACKAGING & ORDER INFORMATION
• Item # 100090 - 1 Syringe 10ml of Q-Etch & 20 Dispensing Tips
• Item # 100091 - 1 Syringe 10ml of Q-Etch UF and 20 Dispensing Tips
• Item # 100097 - 4 Syringes 1.2ml of Q-Etch and 8 Dispensing Tips
• Item # 100098 - 4 Syringes 1.2ml of Q-Etch UF and 8 Dispensing Tips
• Item # 100095-5 - 5 Syringes 3ml of Q-Etch and 20 Dispensing Tips
• Item # 100091-5 - 5 Syringes 3ml of Q-Etch UF and 20 Dispensing Tips

TECHNICAL DATA
Excellent water solubility
pH 1.8
Viscosity Regular / Unfilled
Shelf Life 2 Years

RELATED PRODUCTS
Prima 2000 High-Q-Bond Q-Core Q-Seal Zirconite
INDICATIONS
• Any time resin bonding to porcelain is required.

PROPERTIES
• Complete kit for preparing porcelain veneers, inlays and fractured porcelain teeth for bonding. It consists of Porcelain Etch and Porcelain Silane.
• Porcelain Etch is a specially buffered, viscous, hydrofluoric acid gel that will etch porcelains of all types to produce a microscopic porous surface, which will provide strong mechanical interlocking with composite resin materials.
• Porcelain Silane is a single component silane that enhances bonding values and durability when applied to etched porcelain surfaces.
• Available in bottles and in convenient 1.2 ml syringes with dispensing tips.

SCIENTIFIC PAPERS
2. A Laboratory Evaluation of Adhesive Resin Cement, Prof. M. Latta, Creighton University School of Dentistry, Omaha, Nebraska, 1997.
4. Laboratory Evaluation of 24 hours Shear Bond Strength of Ceramic to Dentin Using Three Cement Systems, Prof. M. Latta, Creighton University School of Dentistry, Omaha, Nebraska, 2006.

PACKAGING & ORDER INFORMATION
Item #100080 – 1 bottle 5 ml of Porcelain Etch and 1 bottle 5 ml of Porcelain Silane
Item #400080 – 1 bottle 5 ml of Porcelain Silane
Item #400081 – 1 bottle 5 ml of Porcelain Etch
Item #400084 – 2 Syringes 1.2ml of Porcelain Etch
                       2 Bottles 2ml Porcelain Silane
                       2 Empty Syringes 1.2m for Porcelain Silane
                       4 Delivery Tips
                       4 Micro Brush tips
Item #400082 – 2 Syringes 1.2ml of Porcelain Etch 4 Delivery Tips
Item #400083 – 2 Bottles 2ml Porcelain Silane
                       2 Empty Syringes 1.2 ml for Porcelain Silane
                       4 Micro Brush tips

TECHNICAL DATA
Porcelain Etch containing Hydrofluoric acid, water, thickening agent
Porcelain Silane containing Glycidoxypropyltrimethoxysilane, ethyl alcohol
Shelf Life 2 Years
INDICATIONS
BJM. Q-Ceram is a surface conditioner for ceramic materials such as porcelain and zirconia restorations. This primer dramatically improves adhesion between ceramic surfaces and resin materials.
It is used for:
- Preparation of ceramic crowns, veneers and inlays prior to cementation.
- Preparation of fractured ceramic crowns for repair with resin materials.

PROPERTIES
BJM. Q-Ceram is a one bottle primer material, for surface preparation of ceramic crowns, prior to bonding with resin cements. This primer improves cementation of zirconia crowns and does not require additional conditioning such as sandblasting. Its low viscosity and excellent wetting properties promote ideal surface coverage.

RELATED PRODUCTS
High-Q-Bond
High-Q-Bond SE
Zirconite

SCIENTIFIC PAPERS

PACKAGING & ORDER INFORMATION
- Item # 400055
  1 bottle 5 ml of Q-Ceram
  50 Q-Ceram Grey Applicators
  1 Dappan Dish

TECHNICAL DATA
Q-Ceram containing ethanol, water, organic acid, silane coupling agent, 4-META
Shelf Life 2 Years

Q CERAM™
Ceramic primer

B.J.M. Q-Ceram is a surface conditioner for ceramic materials such as porcelain and zirconia restorations. This primer dramatically improves adhesion between ceramic surfaces and resin materials.

It is used for:
- Preparation of ceramic crowns, veneers and inlays prior to cementation.
- Preparation of fractured ceramic crowns for repair with resin materials.

B.J.M. Q-Ceram is a one bottle primer material, for surface preparation of ceramic crowns, prior to bonding with resin cements. This primer improves cementation of zirconia crowns and does not require additional conditioning such as sandblasting. Its low viscosity and excellent wetting properties promote ideal surface coverage.

Q-Ceram containing ethanol, water, organic acid, silane coupling agent, 4-META
Shelf Life 2 Years

PACKAGING & ORDER INFORMATION
- Item # 400055
  1 bottle 5 ml of Q-Ceram
  50 Q-Ceram Grey Applicators
  1 Dappan Dish

TECHNICAL DATA
Q-Ceram containing ethanol, water, organic acid, silane coupling agent, 4-META
Shelf Life 2 Years
INDICATIONS
• Permanent cementation of crowns and bridges, inlays and onlays, posts and cores, ceramic crowns and Maryland bridges.
• Porcelain repair - Used as metal adhesive opaquer.

PROPERTIES
• Multi-purpose, dual-cured, radiopaque, permanent cement.
• Forms an excellent bond with tooth structure, Metal alloys, Amalgams, Porcelains and Ceramics.
• Self-cured cement which you can light-cure for an immediate set and extra strength at the margins.
• Light curing of High-Q-Bond Resin Cement gives your restorations immediate stability, plus easy cleanup of excess cement before the final set.
• Superior retention and total margin integrity.
• Virtually neither taste nor odor – Increased patient comfort

SCIENTIFIC PAPERS
5. A Laboratory Evaluation of Adhesive Resin Cement, Prof. M. Latta, Creighton University School of Dentistry, Omaha, Nebraska, 1997.
12. Laboratory Evaluation of 24 hours Shear Bond Strength of Ceramic to Dentin Using Three Cement Systems, Prof. M. Latta, Creigh-
High Q Bond

TECHNICAL DATA

Compressive strength 180 MPa
Flexural strength 170 MPa
Hardness by Barcol 80
Water sorption 8 µg/mm³
Solubility 1 µg/mm³
Adhesive bonding to un-etched enamel > 20 MPa
Adhesive bonding to un-etched dentin > 15 MPa
Adhesive bonding to Rexillium > 10 MPa
Film thickness 10 µm
Radiopacity, % Aluminium 250
Working Time (in ambient light and temperature) 1.5 - 3.5 min
Setting Time (in oral temperature) 2.5 - 4.5 min
Compatible with halogen light Yes
Compatible with Plasma ark light lamp Yes
Compatible with LED Yes
Shelf Life 2 Years

PACKAGING & ORDER INFORMATION

- Item # 100050 - Hand Mix
  1 Syringe 3ml of High-Q-Bond Base
  1 Syringe 3ml of High-Q-Bond Catalyst
  1 Mixing Pad
  10 Mixing Spatulas

- Item # 100050AM - Automix
  1 Automix Syringe 5 ml of High-Q-Bond
  10 Automix Syringe Mix Tips
  10 Intra-Oral Angular Tips, Size Fine
  10 Intra-Oral Angular Tips, Size Long XX-Fine
  1 Mixing Pad

RELATED PRODUCTS

Q Etch Q Etch UF Prima 1 Prima 2000 Prima Quick Auto Cure Activator Porcelain Fix HQB SE Zirconite Q-Temp Q-Glass
INDICATIONS
• Permanent cementation of crowns and bridges, inlays and onlays, posts and cores and ceramic crowns.

PROPERTIES
• Self-etch, self-adhering resin cement
• does not require etching, priming or bonding before cementing the permanent restoration.
• Self-cured cement which you can light-cure for an immediate set and extra strength at the margins.
• Radiopaque – Easily seen in radiograph.
• Fluoride – Known to reduce the possibility of secondary caries and considered to be cariostatic.
• Automix Syringe – Saves application time, guarantees consistent mix.
• 3 Shades: A2, White & Translucent.
• Virtually neither taste nor odor – Increased patient comfort.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive strength</td>
<td>180 MPa</td>
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<tr>
<td>Flexural strength</td>
<td>170 MPa</td>
</tr>
<tr>
<td>Hardness by Barcol</td>
<td>80</td>
</tr>
<tr>
<td>Water sorption</td>
<td>8 µg/mm³</td>
</tr>
<tr>
<td>Solubility</td>
<td>1 µg/mm³</td>
</tr>
<tr>
<td>Adhesive bonding to un-etched enamel</td>
<td>&gt; 20 MPa</td>
</tr>
<tr>
<td>Adhesive bonding to un-etched dentin</td>
<td>&gt; 15 MPa</td>
</tr>
<tr>
<td>Adhesive bonding to Rexillium</td>
<td>&gt; 10 MPa</td>
</tr>
<tr>
<td>Film thickness</td>
<td>10 µm</td>
</tr>
<tr>
<td>Radiopacity, % Aluminium</td>
<td>250</td>
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<tr>
<td>1-week Cumulative F-release (ng/cm²)</td>
<td>40</td>
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<tr>
<td>Working Time (in ambient light and temperature)</td>
<td>1.5 - 3.5 min</td>
</tr>
<tr>
<td>Setting Time (in oral temperature)</td>
<td>2.5 - 4.5 min</td>
</tr>
<tr>
<td>Compatible with halogen light</td>
<td>Yes</td>
</tr>
<tr>
<td>Compatible with Plasma ark light lamp</td>
<td>Yes</td>
</tr>
<tr>
<td>Compatible with LED</td>
<td>Yes</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>2 Years</td>
</tr>
</tbody>
</table>

SCIENTIFIC PAPERS
1. Laboratory Evaluation of 24 hours Shear Bond Strength of Ceramic to Dentin Using Three Cement Systems, Prof. M. Latta, Creighton University School of Dentistry, Omaha, Nebraska, 2006. Dr. Wladimir Aranda, Test of self-adhering luting cements to human dentin, 2006.
PACKAGING & ORDER INFORMATION

• Item # 100050SE
  1 Automix Syringe 5ml of HQB SE A2
  10 Automix Syringe Mix Tips
  10 Intra-Oral Angular Tips, Size Long XX-Fine
  1 Mixing Pad

• Item # 100051SE
  1 Automix Syringe 5ml of HQB SE White
  10 Automix Syringe Mix Tips
  10 Intra-Oral Angular Tips, Size Long XX-Fine
  1 Mixing Pad

• Item # 100052SE
  1 Automix Syringe 5ml of HQB SE Translucent
  10 Automix Syringe Mix Tips
  10 Intra-Oral Angular Tips, Size Long XX-Fine
  1 Mixing Pad

RELATED PRODUCTS

Porcelain Fix  Q-Temp  Zirconite  High-Q-Bond  Q-Glass
INDICATIONS
• Permanent cementation of Zirconia crowns, bridges, inlays and onlays.

PROPERTIES
• Superior retention and total margin integrity.
• Dual-cured, radiopaque, permanent resin cement in a convenient Automix syringe.
• Forms an excellent bond with Zirconium, metal alloys, porcelain and tooth structure.
• Self-cured cement which you can light-cure for an immediate set and extra strength at the margins.
• Virtually neither taste nor odor – Increased patient comfort.

SCIENTIFIC PAPERS
TECHNICAL DATA

Compressive strength 170 MPa
Flexural strength 170 MPa
Hardness by Barcol 80
Water sorption 8 µg/mm³
Solubility 1 µg/mm³
Adhesive bonding to Zirconia > 12 MPa
Film thickness 10 µm
Radiopacity, % Aluminium 250
pH ~ 7
Dimensional Change on Polymerization 3 - 4 %
Working Time (in ambient light & temperature) 1.5 - 3.5 min
Setting Time (in oral temperature) 2.5 - 4.5 min
Compatible with halogen light Yes
Compatible with Plasma ark light lamp Yes
Compatible with LED Yes
Shelf Life 2 Years

PACKAGING & ORDER INFORMATION

- Item # 400050
  1 Automix Syringe 5 ml of Zirconite Dentin
  1 Mixing Pad
  10 Automix Syringe Mix Tips
  10 Intra-Oral Angular Tips, Size Fine
  10 Intra-Oral Angular Tips, Size Long XX-Fine

- Item # 400050TR
  1 Automix Syringe 5 ml of Zirconite Translucent
  1 Mixing Pad
  10 Automix Syringe Mix Tips
  10 Intra-Oral Angular Tips, Size Fine
  10 Intra-Oral Angular Tips, Size Long XX-Fine

RELATED PRODUCTS

Prima 1
Prima 2000
Prima Quick
Auto Cure Activator
INDICATIONS
• Long-term cementation for permanent implant-retained restorations and long-term provisionals.

PROPERTIES
• Secure retention – Long-term cementation
• Retrievability – Off when you need it
• Radiopaque – Improves detection of excess cement
• Low solubility – Good marginal seal
• Easy handling – Two-stage cure features initial gel-phase in 2-2.5 minutes for easy removal of excess cement. Rigid final set ensures marginal seal and firm retention.
• Automix dual-barrel syringe and disposable mix tips Consistent product mix and controlled dispensing save time
• Esthetic gingival shading – Natural appearance
• Virtually neither taste nor odor – Increased patient comfort

SCIENTIFIC PAPERS
10. Ask Dr. Cristensen, Dental Economics, p. 50 – 58, May 2011.
TECHNICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexural Strength</td>
<td>60 MPa</td>
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<tr>
<td>Film Thickness</td>
<td>10 µm</td>
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<tr>
<td>Solubility</td>
<td>2 µg/mm³</td>
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<tr>
<td>Water Sorption</td>
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<tr>
<td>Linear Shrinkage</td>
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</tr>
<tr>
<td>Working Time @ 23°C</td>
<td>1.5-3.5 min</td>
</tr>
<tr>
<td>Initial Setting Time @ 37°C</td>
<td>2.0-2.5 min</td>
</tr>
<tr>
<td>Final Setting Time @ 37°C</td>
<td>4.5-5.0 min</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>2 Years</td>
</tr>
</tbody>
</table>

PACKAGING & ORDER INFORMATION

- **Item # 100110 – Hand Mix**
  - 1 Syringe 10 ml of Cem-Implant Base
  - 1 Syringe 10 ml of Cem-Implant Catalyst
  - 1 Mixing Pad
  - 25 Mixing Spatulas

- **Item # 100115 – Automix**
  - 2 Automix Syringes 5 ml Each of Cem-Implant
  - 20 Mix Tips

RELATED PRODUCTS

- Q-Temp
**INDICATIONS**

- Temporary cementation of crowns and bridges

**PROPERTIES**

- Firm Retention / Easy Removal
  - No re-cementing temporaries
- Eugenol-Free
  - Non irritating to soft tissue / will not inhibit permanent cementation
- Fluoride Release
- Potassium Nitrate - Known to reduce sensitivity and act as a sedative to the pulp
- Chlorhexidine - A proven anti-bacterial agent
- Resin-Matrix Formulation
- Good marginal seal with no wash-out
- Two-Stage Curing
  - Initial gel-set stabilizes temporary, allowing easy removal of excess
- Automix Syringe - Saves application time; guarantees consistent mix
- Neutral Shade - Blends esthetically with temporary restoration / No show-through

**SCIENTIFIC PAPERS**

TECHNICAL DATA

Flexural Strength 30 MPa
Film Thickness 10 µm
Solubility 7 µg/mm³
Water Sorption 22 µg/mm³
Linear Shrinkage 4.5 %
Exothermal Polymerization Temperature, Texo 31ºC
Working Time @ 23ºC 1.5 - 3.5 min
Initial Setting Time @ 37ºC 1.5 - 2.0 min
Final Setting Time @ 37ºC 3.0 - 4.0 min
Shelf Life 2 Years

PACKAGING & ORDER INFORMATION

• Item #100014 Automix - Intro
  1 x 5ml Automix Syringe of Q-Temp
  10 Mix Tips

• Item #100015 Automix - Bulk
  4 x 5ml Automix Syringes Each of Q-Temp

• Item # 100010 – Hand Mix
  1 Syringe 10 ml of Q-Temp Base
  1 Syringe 10 ml of Q-Temp Catalyst
  1 Mixing Pad
  25 Mixing Spatulas

RELATED PRODUCTS

High-Q-Bond  HQB SE  CEM-IMPLANT  Zirconite  Q-Glass
Q GLASS™
Glass-ionomer luting cement

INDICATIONS
• Permanent cementation of crowns and bridges

PROPERTIES
• Mixes easily
• High strength
• High radiopacity
• Snap set
• Excess material is easy to remove.
• Can be used also as a liner and base.

SCIENTIFIC PAPERS

TECHNICAL DATA
24 Hours Compressive Strength 120 MPa
1 Week Compressive Strength 140 MPa
Working Time @ 23°C 2.0 - 3.5 min
Setting Time @ 37°C 1.5 - 3.5 min
Radiopacity 250 %Al
Shelf Life 2 Years

PACKAGING & ORDER INFORMATION
• Item # 100030 – Shade A2
  1 Bottle 16g Q-Glass Powder
  1 Bottle 10 ml Q-Glass Liquid
  1 Measuring Spoon
  1 Mixing Pad

RELATED PRODUCTS
High-Q-Bond
HQB SE
Zirconite
Q-Temp
RESTORATIVES
INDICATIONS
• Core build-ups in vital and non-vital teeth

PROPERTIES
• Advanced Dual-Cure Formula 30 second cure to a depth of 8mm! If light-curing is not an option – allow Q-Core to self-cure in 4.5 minutes intraorally!
• Improved natural appearance.
• The greater translucency of the enhanced Q-Core presents a more natural tooth appearance, which minimizes the chance of shadows under ceramic crowns- yet provides good contrast and excellent radiopacity.
• Outstanding handling for ease of use.
• Q-Core will stay put – even in difficult maxillary core build-ups, yet flows under pressure for excellent adaptation.
• Preps like dentin without ditching.
• Superior durability for peace of mind
• Q-Core composite core build-up material utilizes exclusive Hyperbranched.
• Technology™1 and nano-fillers for superior mechanical properties and long term clinical success - available in automix SyringeMix™ and cartridge dispensers.
• Depth of cure: A3 shade 8mm. White and blue shade 6mm.

SCIENTIFIC PAPERS
1. A Laboratory Evaluation of a Novel Self-Cured Core Build-Up Material, Prof. M. Latta, Creighton University School of Dentistry, Omaha, Nebraska, 2001.
11. Rheology of Dental Restorative Cements that Includes Fumed Silica Nanoparticles, N. Zalsman, A. Valdman, B. Zalsman, K. Lizenboim, A. Khaskin, A. Suvorov, and I. Suvorov, Program
TECHNICAL DATA

- Compressive Strength: 250 MPa
- Linear Shrinkage: 1.2%
- Flexural strength: 200 MPa
- Diametral Tensile Strength: 40 MPa
- Solubility: 2 µg/mm³
- Water Sorption: 14 µg/mm³
- Hardness by Techlock Durometer GS-709N, Type A: 90
- Compatible with halogen light: Yes
- Compatible with Plasma ark light lamp: Yes
- Compatible with LED: Yes
- Depth of Cure Irradiation by Halogen light – for 30 sec: 8.0 mm
- Working Time @ 23°C: 1.5 - 3.5 min
- Setting Time @ 37°C: 2.5 - 4.5 min
- Exotherm Temperature: 26 ºC
- Radiopacity: 400 %Al
- Average Filler Concentration (by weight): 60 wt%
- Shelf Life: 2 Years

PACKAGING & ORDER INFORMATION

- Q-CORE Cartridge:
  - Item #100100 - Shade White - 25ml
  - Item #100101 - Shade A3 - 25ml
  - Item #100103 - Shade Blue - 25ml
  - Item #100105 - Shade White - 50ml
  - Item #100106 - Shade A3 - 50ml
  - Item #100107 - Shade Blue - 50ml

- Each Q-CORE Cartridge Kit contents:
  1 Automix Cartridge of Q-Core
  25 Mix Tips
  25 Intra-Oral Syringe Tips

- Q-CORE Syringable:
  - Item #100900 - Shade White
  - Item #100901 - Shade A3
  - Item #100902 - Shade Blue

- Each Q-CORE Syringable Kit contents:
  2 Automix Syringes of Q-Core 5 ml Each
  15 Mix Tips
  10 Intra-Oral Angular Tips, Size Fine
  10 Intra-Oral Angular Tips, Size Long XX- Fine

RELATED PRODUCTS

- Q Etch
- Q Etch UF
- Prima 2000
- Prima Quick
- Prima 1

INDICATIONS
• Direct chairside Temporization Material

PROPERTIES
• Automix Syringe - Saves application time; guarantees consistent mix.
• Offers exceptionally tight marginal seal with precision fit.
• High biocompatibility.
• Suitable for long-term temporary crowns and bridges due to its high mechanical strength and precision fitting.
• Excellent esthetics due to great color stability, high polishability, choice of three Vita shades: A1, A2 and A3 and translucent Glaze Varnish.

SCIENTIFIC PAPERS

PACKAGING & ORDER INFORMATION
• Item #400230
  1 Automix Syringe 5 ml of Q-Crown, Shade A1
  1 Automix Syringe 5 ml of Q-Crown, Shade A2
  1 Automix Syringe 5 ml of Q-Crown, Shade A3
  1 Bottle 5 ml of Q-Crown Glaze
  25 Automix Syringe Mix Tips
  25 Micro brush applicators

• Item #400231
  Q Crown, 1 X 5ml Automix Syringes, Shade A1

• Item #400232
  Q Crown, 1 X 5ml Automix Syringes, Shade A2

• Item #400233
  Q Crown, 1 X 5ml Automix Syringes, Shade A3

• Item #400234
  Q Crown Glaze 5ml
Q SEAL™

Light cured, pit & fissure sealant with fluoride release

INDICATIONS
- Pediatric sealant applications

PROPERTIES
- Designed to seal pits and fissures of caries susceptible teeth
- Bonds to enamel by applying the acid-etch technique.
- Easy and precise application by using the direct syringe technique.
- Light-cured / LED light compatible.
- Low viscosity - Flows easily into pits and fissures.
- Contains and releases fluoride.

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Compressive strength</td>
<td>150 MPa</td>
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<tr>
<td>Flexural strength</td>
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<tr>
<td>Barcol Hardness</td>
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<tr>
<td>Water sorption</td>
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<td>Solubility</td>
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<tr>
<td>Fluoride release</td>
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<td>Bond Strength to etched tooth enamel</td>
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<td>Depth of cure</td>
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<tr>
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<td>Compatible with LED</td>
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</tr>
<tr>
<td>Shelf Life</td>
<td>2 Years</td>
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</table>

SCIENTIFIC PAPERS
1. A laboratory evaluation of the shear bond strength of resin sealants to intact enamel using self-etching and total-etch sealant systems, Prof. M. Latta, Creighton University School of Dentistry, Omaha, Nebraska, 2006.

PACKAGING & ORDER INFORMATION
Item # 100120
2 Syringes 1.2ml Each of Q-Seal
2 Syringes 1.2ml Each of Q-Etch
8 Delivery Tips

RELATED PRODUCTS
Q Etch
Q Etch UF
Quick Seal
INDICATIONS
- Pediatric sealant applications

PROPERTIES
- Designed to seal pits and fissures of caries susceptible teeth.
- Self-Etching - Bonds to enamel without acid-etch.
- NO ETCH / NO RINSE / NO DRY simplifies and shortens the clinical procedure.
- Easy and precise application by using the direct syringe technique.
- Light-cured / LED light compatible.
- Low viscosity - Flows easily into pits and fissures.
- Contains and releases fluoride.
- Ideal for non cooperating children.

SCIENTIFIC PAPERS
1. A laboratory evaluation of the shear bond strength of resin sealants to intact enamel using self-etching and total-etch sealant systems, Prof. M. Latta, Creighton University School of Dentistry, Omaha, Nebraska, 2006.

PACKAGING & ORDER INFORMATION
- Item # 100130
  2 Syringes 1.2ml Each of Quick Seal and 4 Delivery Tips

TECHNICAL DATA
<table>
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<th>Property</th>
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<tr>
<td>Compressive strength</td>
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<td>Hardness by Barcol</td>
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<td>Water sorption</td>
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<tr>
<td>Solubility</td>
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<td>Fluoride release</td>
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<td>Bond Strength to etched tooth enamel</td>
<td>34 – 40 MPa</td>
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<td>Compatible with LED</td>
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<tr>
<td>Shelf Life</td>
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</table>

RELATED PRODUCTS
- Q-Seal
ORTHODONTIC PRODUCTS
**INDICATIONS**

- Bracket Adhesive - Bonds metal and ceramic brackets to tooth surfaces.

**PROPERTIES**

- Compatible with LED lights as well as traditional curing lights.
- Convenience of a light cure, plus a paste that has the bonding characteristics and viscosity that are optimal for today’s mesh bases.
- Bonds chemically and mechanically for a superior bond, while flowing into the tightest mesh without bracket drift.
- Small particle glass filled material designed specifically for orthodontic use that allows maximum penetration of filler into the finest screen mesh base.
- Fluoride releasing and recharging.
- Available in either 4g Syringe or 0.4g Compule delivery system.
- Each Syringe can be applied to 40 – 60 brackets.
- Each Compule can be applied to 4 – 6 brackets.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tr>
<td>Adhesive bonding to etched enamel</td>
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<td>Adhesive bonding to bracket</td>
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<td>Working Time (in ambient light and temperature)</td>
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<td>Setting Time</td>
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<td>Compatible with Plasma ark light lamp</td>
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<td>Compatible with LED</td>
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</tr>
<tr>
<td>Shelf Life</td>
<td>2 Years</td>
</tr>
</tbody>
</table>

**SCIENTIFIC PAPERS**


3. Clinical research: Ideal bracket adhesive system, Hadassah School of Dental Medicine, Hebrew University, 2003.


5. Antibacterial orthodontic adhesive incorporating polyethyleneimine nanoparticles, N. Zalstman, D. Kesler Shvero, M. Perez Davidi, E. Weiss, N. Beyth, Hadassah School of Dental Medicine, Hebrew University, IADR Israeli Division Meeting, Israel, 2011.


PACKAGING & ORDER INFORMATION

- Item # 400060 - High-Q-Bond Bracket Light Cure Adhesive Kit
  2 Syringes Each 1.2 ml of Q-Etch Ortho
  1 Bottle 6 ml of HQB Bracket Primer
  4 Syringes 4 g Each of HQB Bracket Adhesive
  20 Dispensing Tips
  25 Microbrushes
  1 Mixing Pad

- Item # 400061 - High-Q-Bond Bracket Light Cure Adhesive Compule Kit
  2 Syringes 1.2 ml Each of Q-Etch Ortho
  1 Bottle 6 ml of HQB Bracket Primer
  40 Compules 0.4 g each of HQB Bracket Adhesive
  1 Compule Gun Syringe
  20 Dispensing Tips
  25 Microbrushes
  1 Mixing Pad

- Item # 400064 - High-Q-Bond Bracket Light Cure Adhesive Compules Refill
  40 Compules 0.4 g each of HQB Bracket Adhesive

- Item # 400063 - 1 Syringe 4 g of High-Q-Bond Bracket Light Cure Adhesive

- Item # 400065 - 1 Bottle 6 ml of High-Q-Bond Bracket Light Cure Primer

RELATED PRODUCTS

Q-Etch Ortho  Porcelain Fix
INDICATIONS
- Cementation of orthodontic
- Occlusion adjustments to prevent deep bite and occlusal interference with a particular orthodontic device.

PROPERTIES
- Compatible with LED lights as well as traditional curing lights.
- Uses light cure adhesive technology to provide you with additional working time to ensure accurate band placement.
- Bonds chemically and mechanically to the band and to the tooth enamel.
- Excellent flow for filling the gap between the band and the tooth.
- Fluoride releasing and recharging.
- Easy to identify (visible blue color).
- Strong reliable chemical bonding with tooth, metal and porcelain surfaces.

PACKAGING & ORDER INFORMATION
- Item # 400062 - High-Q-Bond Band Light Cure Band Cement Kit
  4 Syringes 4 g of HQB Band Cement
- Item # 400066 - 1 Syringe 4 g of High-Q-Bond Band Cement

TECHNICAL DATA
- Adhesive bonding to etched enamel: > 30 MPa
- Adhesive bonding to Rexillium: > 40 MPa
- Water sorption: 30 µg/mm³
- Solubility: 7 µg/mm³
- Film thickness: 15 µm
- Dimensional Change on Polymerization: 2 %
- Working Time (in ambient light and temperature): 2 - 3 min
- Setting Time: 10 - 20 sec
- Compatible with halogen light: Yes
- Compatible with Plasma ark light lamp: Yes
- Compatible with LED: Yes
- Shelf Life: 2 Years
INDICATIONS
• Adhesive bonding of orthodontic lingual retainers.

PROPERTIES
• Compatible with LED lights as well as traditional curing lights.
• Uses light cure adhesive technology to provide you with additional working time to ensure accurate retainer placement
• Ideal viscosity - No drift.
• Easy to identify (visible orange color)
• Photonic chromatic technology - After light curing, color changes from orange to white.
• Contains the adhesive promoter 4-Meta, for strong and durable chemical bonding.
• Fluoride releasing and recharging.

SCIENTIFIC PAPERS
1. Adhesive fixing technique lingual retain
2. Adhesive fixing technique lingual retain

PACKAGING & ORDER INFORMATION
• Item # 100320 High-Q-Bond Light Cure Retainer Kit
  2 Syringes 1.2 ml of Q-Etch Ortho
  2 Syringes 1.2 ml of HQB Light Cure Retainer
  8 Delivery Tips

TECHNICAL DATA
Adhesive bonding to etched enamel > 30 MPa
Adhesive bonding to Rexillium > 40 MPa
Film thickness 15 µm
Dimensional Change on Polymerization 2 %
Working Time (in ambient light and temperature) 2 - 3 min
Setting Time 10 - 20 sec
Compatible with halogen light Yes
Compatible with Plasma ark light lamp Yes
Compatible with LED Yes
Shelf Life 2 Years

RELATED PRODUCTS
Q-Etch Ortho Porcelain Fix
Q ETCH™ ORTHO
Etching gel - phosphoric acid 37%

INDICATIONS
- Any procedure that requires etching

PROPERTIES
- 37% Phosphoric Acid Etch Gel with excellent viscosity for precise application.
- Stays put and does not run.
- Washes off easily & quickly.
- Has excellent water solubility.
- Easy to use. Available in 1.2 ml syringes.
- Applicators tips are angled to facilitate easy and accurate placement of the gel.
- Disposable tips save time and are more sanitary.
- Green Visible color.

PACKAGING & ORDER INFORMATION
- Item #400067
  4 Syringes 1.2ml Each of Q-Etch Ortho and 8 Dispensing Tips

TECHNICAL DATA
Excellent water solubility

- pH: 1.8
- Viscosity: Unfilled
- Shelf Life: 2 Years

RELATED PRODUCTS
- High-Q-Bond Bracket
- High-Q-Bond Band
- High-Q-Bond Light Cure Retainer
Q GLASS™ ORTHO
Glass ionomer band cement

INDICATIONS
• Cementation of orthodontic bands.

PROPERTIES
• Strong chemical adhesion.
• Fluoride release.
• Low sensitivity to moisture.
• Blue color for good visibility.

PACKAGING & ORDER INFORMATION
• Item # 100340 - Q-Glass Ortho Glass - Ionomer Band Cement Kit
  1 bottle 16 g Q-Glass Ortho Powder
  1 bottle 10 ml Q-Glass Ortho Liquid
  1 Measuring Spoon
  1 Mixing Pad

TECHNICAL DATA
Adhesive bonding to enamel > 10 MPa
24 Hours Compressive strength > 70 MPa
Working Time @ 23°C 2 - 3 min
Setting Time @ 37°C 3 - 4 min
Shelf Life 2 Years

RELATED PRODUCTS
Q-Etch Ortho
Porcelain Fix
INDICATIONS
• Obturation of root canals together with gutta-percha points.

PROPERTIES
• Extremely high radiopacity.
• Excellent wetability and flow properties.
• Outstanding sealing ability.
• IABT Antibacterial technology.
• Non-cytotoxic.
• Long-term stability.
• Moderate flexibility that prevents cracking of fully cured material.
• Low shrinkage.
• Automix Syringe - Saves application time; guarantees consistent mix.

SCIENTIFIC PAPERS
1. Antibacterial mechanism of novel endodontic sealer, D. Kesler Shvero, N. Zaltsman, E. Weiss, N. Beyth, Hadassah School of Dental Medicine, Hebrew University, IADR Israeli Division Meeting, Tel-Aviv, June 2013.

PACKAGING & ORDER INFORMATION
• Item # 400200
  1 Automix Syringe 5 ml of BJM RCS
  10 Automix Syringe Mix Tips and Inta Oral Tips
  1 Mixing Pad

TECHNICAL DATA
BJM RCS will set within 48 hours at 37°C
Shelf Life 2 Years
ACCESSORIES
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<td>20 Dispensing Tips 18 Gauge</td>
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<td>400092</td>
<td>20 Dispensing Tips 22 Gauge</td>
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<td>4000925</td>
<td>20 Dispensing Tips 25 Gauge</td>
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<td>400095</td>
<td>20 Micro Brush applicators 22 Gauge</td>
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<td>100092</td>
<td>10 Disposable Syringes 1.2 ml and 1 Converter</td>
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<td>100992</td>
<td>Endodontic Canal Irrigation Kit</td>
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<td>50 Yellow Intra Oral Dispensing Tips</td>
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<td>Q-CORE Syringable, Shade White, 2x5ml</td>
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<td>100908</td>
<td>Q-Etch UF, 4x1.2ml</td>
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<td>Q-Glass, Shade A2, comprising Powder 16g and Liquid, 10ml</td>
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<td>100120</td>
<td>Q-Seal, comprising Q-Seal, 2x1.2ml and Q-Etch, 2x1.2ml</td>
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<tr>
<td>100014</td>
<td>Q-Temp Automix - Intro, 1x5ml</td>
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<tr>
<td>100015</td>
<td>Q-Temp Automix - Bulk, 4x5ml</td>
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<tr>
<td>100010</td>
<td>Q-Temp Hand Mix, 2x10ml</td>
</tr>
<tr>
<td>Item Code</td>
<td>Description</td>
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<tr>
<td>400230</td>
<td>Q-Crown Kit, comprising Q-Crown Shade A1, A2, A3 and Glaze, 5ml</td>
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<tr>
<td>400231</td>
<td>Q-Crown, Shade A1, Automix, 5ml</td>
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<td>400232</td>
<td>Q-Crown, Shade A2, Automix, 5ml</td>
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<tr>
<td>400233</td>
<td>Q-Crown, Shade A3, Automix, 5ml</td>
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<tr>
<td>400234</td>
<td>Q-Crown, Glaze, 5ml</td>
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<tr>
<td>100130</td>
<td>Quick Seal, 2x1.2ml</td>
</tr>
<tr>
<td>400094</td>
<td>20 Dispensing Tips 20 Gauge</td>
</tr>
<tr>
<td>400092</td>
<td>20 Dispensing Tips 22 Gauge</td>
</tr>
<tr>
<td>4000925</td>
<td>20 Dispensing Tips 25 Gauge</td>
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<tr>
<td>100092</td>
<td>10 Disposable Syringes 1.2 ml and 1 Converter</td>
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<tr>
<td>100992</td>
<td>Endodontic Canal Irrigation Kit</td>
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<tr>
<td>400092</td>
<td>20 Micro Brush applicators 22 Gauge</td>
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<tr>
<td>400191YIOT50</td>
<td>50 Yellow Intra Oral Dispensing Tips</td>
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<tr>
<td>400092XL50</td>
<td>50 Dispensing Tips X-Long 22 Gauge</td>
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<td>400095XL50</td>
<td>50 Dispensing Tips X-Long 25 Gauge</td>
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<tr>
<td>400193</td>
<td>50 Intra-Oral Angular Tips, Size Fine</td>
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<tr>
<td>400194</td>
<td>50 Intra-Oral Angular Tips, Size Long XX-Fine</td>
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<tr>
<td>100117</td>
<td>25 Automix Syringe Mix Tips</td>
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<tr>
<td>100102</td>
<td>25 Automix Cartridge Mix Tips and 25 Intra-oral Yellow Tips</td>
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<tr>
<td>100903</td>
<td>25 Automix Syringe Mix Tips and 25 Intra-Oral Fine Tips</td>
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<td>25 Automix Syringe Mix Tips and 25 Intra-Oral Long XX-Fine Tips</td>
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<td>400097</td>
<td>S25 Dispenser for 25 ml cartridge</td>
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<td>100320</td>
<td>High-Q-Bond Light Cure Retainer</td>
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<tr>
<td>100340</td>
<td>Q-Glass Ortho Band Cement Blue</td>
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<td>400060</td>
<td>High-Q-Bond Bracket Light Cure Adhesive Kit</td>
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<td>400061</td>
<td>High-Q-Bond Bracket Light Cure Adhesive Compule Kit</td>
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<td>High-Q-Bond Bracket Light Cure Adhesive Compules Refill 40x0.4 g</td>
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<td>High-Q-Bond Bracket Adhesive Refill 4 g</td>
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<td>High-Q-Bond Bracket Primer Refill 6 ml</td>
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<td>400062</td>
<td>High-Q-Bond Band Light Cure Band Cement Blue Kit</td>
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<tr>
<td>400066</td>
<td>High-Q-Bond Band Cement Refill 4 g</td>
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<td>400067</td>
<td>Q-Etch Ortho 37%, 4x1.2 ml</td>
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<td>400200</td>
<td>BJM RCS, Automix, 1x5ml</td>
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