

BJM LABS

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Description

Q Core Syringable is a stackable, dual-cured, fluoride-releasing, radiopaque composite core build-up material. The material's viscosity allows easy placement, and it flows under pressure. The dual-cured option allows for bulk fill. Light curing takes 40 seconds, with a depth cure of 8 mm for shade A3 and 6 mm for shades blue and white. After mixing, self-curing takes 3 minutes. **Q Core Syringable** cuts like dentin once cured and possesses a high compressive strength (250 MPa), high flexural strength (200 MPa), and contrast for visualization during trimming. **Q Core Syringable** is available in shades (A3, blue and white), in 50 mL cartridges and in 5 mL automix syringes. Intra-oral tips are available in fine, extra fine and extra extra fine.

88%
overall
rating

Consultants' Comments

- "Viscosity lets the material flow around posts, yet it has a positive feel upon placement."
- "Great adaptability and flowability."
- "Good control of flow - can adjust the flow by selecting the size of the tips."
- "It cut almost like dentin, and is the closest to dentin that I have found."
- "Good tip sizes for various size teeth/locations."
- "Dual-cured option is great."
- "I liked the white shade for anterior teeth."
- "I would like a faster cure."
- "I would prefer a thicker material - it was a little too runny and slumped."
- "I would like to see more opaque and more translucent shades."
- "The addition of more tips and thinner tips would be good."

Clinical Tips

- Bleed the tubes before placement of a dispensing tip.
- Use the blue or white shade for a big core to easily differentiate the material from the tooth.
- Use in situations where you would use a matrix band.
- Apply small amounts and briefly tack cure to help with stacking of the material.
- Use the smaller tips around posts to help with placement.
- Use with **Ribbon** for post build-ups in teeth that have been treated endodontically.
- Cure for at least 60 seconds before trimming.

Indication

- Core build-ups.

Unique Features

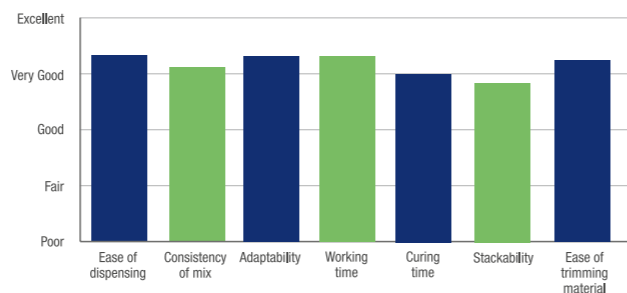
- Releases fluoride
- Uses exclusive "Hyperbranched Technology" and nanofillers for superior mechanical properties.

Evaluation Highlights

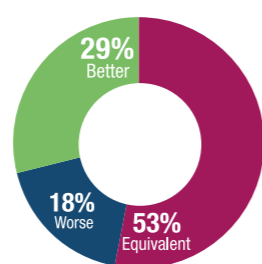
Q Core Syringable was evaluated by 34 consultants for a total of 531 times.

- Easy to dispense.
- Easy to use.
- Flowable.
- Stackable.
- Easy to trim.
- Radiopaque.

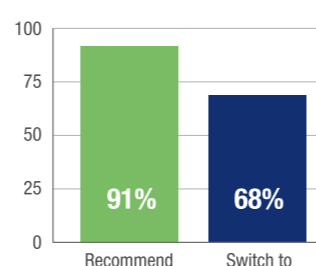
Key Features:



Compared to Competitive Products:



Percentage of Consultants Who Would:



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Q CORE™

Stackable, dual-cure, fluoride-releasing,
radiopaque composite core build-up

Q CORE™

STACKABLE, DUAL-CURE, FLUORIDE-RELEASING,
RADIOPAQUE COMPOSITE CORE BUILD-UP

THE DENTAL
ADVISOR
★★★★



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.
2. Adhesive Bonding of a Novel Dual-Cure Composite Material, Contemporary Esthetics and Restorative Practice, p. 2-4, July 2003.
3. The effect of hyper-branched polymers on the properties of dental composites and adhesives,

K. Lizenboim, H. Dodiuk-Kenig, I. Eppelbaum, B. Zalsman and S. Kenig, Program Number 1489, IADR Congress, Gothenburg, Sweden, 2003.

4. The effect of hyper-branched polymers on the properties of dental composites and adhesives, H. Dodiuk-Kenig, K. Lizenboim, I. Eppelbaum, B. Zalsman and S. Kenig, J. Adhesion Sci. Technol., Vol. 18, No. 15-16, pp. 1723-1737, 2004.
5. Dental Advisor Clinical report, Cartridge, October 2003.
6. Keynote Address: Novel Dental Composites and Adhesives Based on Nanotechnology. H. Dodiuk-Kenig, IADR/AADR/CADR 83rd General Session, March 2005.
7. Cement Expansion in Saline, K. Simmons, J.O. Burgess, and M.M. Winkler, IADR/AADR/CADR 83rd General Session, Baltimore, USA, March 2005.
8. Dual-Cure Core Compatibility to DBA using Self-Cured and Self-Etching Activators, B. Zalsman, A. Valdman, K. Lizenboim, I. Suvorov, A. Suvorov, W.A. McHale, H. Dodiuk-Kenig, IADR Poster, Program Number 1116, 2006.
9. The effect of grafted caged silica (polyhedral oligomeric silsesquioxanes) on the properties of dental composites and adhesives, H. Dodiuk-Kenig, Y. Maoz, K. Lizenboim, I. Eppelbaum, B. Zalsman and S. Kenig, J. Adhesion Sci. Technol., Vol. 20, No. 12, pp. 1401-1412 (2006).
10. Performance Enhancement of Dental Composites Using Electrospun Nanofibers, H. Dodiuk-Kenig, K. Lizenboim, S. Roth, B. Zalsman, W. A. McHale, M. Jaffe, and K. Griswold, J. of Nanomaterials, Volume 2008.
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 Number 208, PEF-IADR Congress, London, UK, 2008.

12. Dental Advisor Clinical report, Cartridge, October - November 2008.
13. Dental Advisor Clinical report, SyringeMix, October - November 2008.
14. A dual-cure composite core for teeth to be restored with full crowns, H. E. Strassler, L. C. Bare, Inside Dentistry, 2009.
15. Monomer conversion analysis of Bis-GMA / TEGDMA based dental restorative material, N. Zaltsman, B. Zlasman, K. Lizenboim, A. Suvorov, I. Suvorov, Program Number 4076, PEF-IADR Congress, Barcelona, Spain, 2009.
16. The ratings: core materials – dual-cured, Reality Online, September 2011.
17. The Dental Advisor Clinical report, April 2017.

Technical Data

Compressive Strength	250 MPa
Linear Shrinkage	1.2 %
Flexural strength	200 MPa
Diametral Tensile Strength	40 MPa
Solubility	2 µg/mm ³
Water Sorption	14 µg/mm ³
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 LED – for 30 sec.	8.0 mm
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 °C
Radiopacity	400 %Al
Average Filler Concentration (by weight)	60 wt%
Shelf Life	2 Years

Related Products



Q Etch



Q Etch UF



Prima 2000



Prima Quick



Prima 1

Packaging & Order Information

Q-CORE Cartridge:

- Item # 100100 - Shade White - 25ml
- Item # 1 00101 - 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

