

Lava™ Crowns and Bridges

Precision fit, proven strength and natural aesthetics.

There is a difference.



Lava™ Crowns and Bridges

Precise Fit
Precision CAD/CAM system for outstanding marginal fit

Superior fit relative to leading competition^{1,2,3}

Fit cited as the most important attribute to doctors⁴

Proven Strength
Proven high strength performance-1440 MPa 3-pt. bend strength⁵

5-year clinical study with 100% survival rate⁶

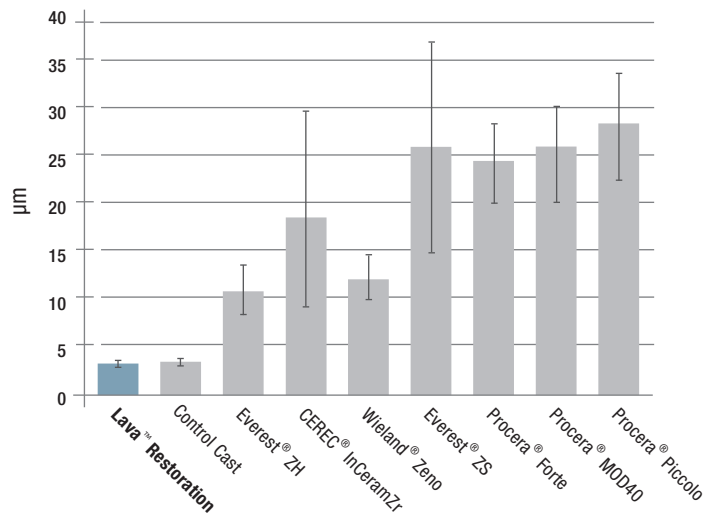
Natural Aesthetics
Natural translucency and unmatched aesthetics

Patented substructure system available in 8 shades.

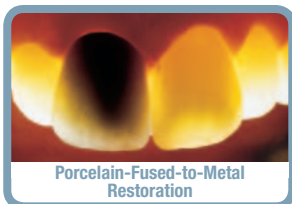
Lava™ Crowns and Bridges from 3M ESPE has been established as a leading brand in CAD/CAM-produced zirconia restorations through its precise fit, proven strength and natural aesthetics. With over 100 years of manufacturing excellence and more than 25 years of zirconia research and processing, 3M ESPE brings vast expertise in materials science and systems integration to create a product that consistently meets the high standard that doctors and labs expect. Lava crowns and bridges from 3M ESPE.

There is a difference.

Marginal Fit: Mean Marginal Gap¹



1. 0828 In-Vitro Vertical Marginal Gap Comparison of CAD/CAM Zirconium Copings, A.J.T. Shannon, F. Qian, P. Tan, and D. Gratton, University of Iowa, Iowa City, USA (2007)



Backlit view shows shadowing of the PFM restoration due to the metal substructure



Backlit view shows the Lava restoration's beautiful, natural translucency



Porcelain-Fused-to-Metal Crown



Lava™ Zirconia Crown

2. 3M ESPE Lava showed the lowest marginal and absolute marginal gap in comparison to Cercon and DCS, A. Piwowarczyk, H.-C. Lauer, Determining the marginal fit of CAD/CAM bridge frameworks, Pan European Federation Conference (PEF; CED) #0254 (2006)
3. Lava 3-unit bridges showed smallest Marginal gap v. Etkon, Cercon brain, Cerec Inlab, F. Beuer, T. Fischer, K.-J. ERdelt, H.-U. Aggstaller, K. Spiegl, W. Gernet; (2005) IADR #1336 and In-vitro Study Marginal fit of Lava restorations; F. Beuer, T. Fischer, K.-J. ERdelt, H.-U. Aggstaller, K. Spiegl, W. Gernet, industrial report (2006)

4. Key Group Study, "Accuracy of fit" listed as #1 out of 16 possible attributes. 134 total doctor responses (October 2006)

5. 3M ESPE Internal 3 pt- Bending Test – ISO 6872 (September 2005)

6. 3-unit posterior bridges, P. Pospeich, University of Homburg, Homburg (Start 2000)

Offering Lava™ Restorations is easy!

Clinical preparation and procedure



Tooth Preparation

1

Minimal tooth reduction required due to zirconia coping thickness of 0.3mm or 0.5mm
Chamfer or shoulder margin



Impression

2

3M™ ESPE™ Impregum™ Penta™ Soft Polyether Impression Material
3M™ ESPE™ Imprint™ 3 VPS Impression Material



Temporization

3

3M™ ESPE™ Protemp™ Crown (Available May 2007)
3M™ ESPE™ Protemp™ Garant™ Temporization Material



Cementation

4

3M™ ESPE™ RelyX™ Unicem Self-Adhesive Universal Resin Cement

Dental lab process



Just send your prescription to the lab of your choice or directly to any of our Authorized Lava™ Milling Centers (ALMCs). Be sure to request a genuine Lava™ Framework. Any lab can request an outsourced coping from an Authorized Lava Milling Center. (A list of ALMCs can be found at 3MESPE.com/lava.)

Approved indications for use

- Single crowns
- 3- and 4-unit bridges with multiple abutments
- 5- and 6-unit bridges
- Splinted crowns (up to six units)
- Cantilever bridges (up to four units); no single abutments

3M ESPE Customer Care Center: 1-800-216-9502

Visit 3MESPE.com/lava for more information

3M ESPE

Dental Products

3M Center
Building 275-2SE-03
St. Paul, MN 55144-1000
USA

3M Canada

Post Office Box 5757
London, Ontario N6A 4T1
Canada
1-888-363-3685

7. Photos courtesy of MDT V. Weber and Dr. D. Edelhoff, Aachen.

8. Photography and case study courtesy of Dr. Heather Rehtin.

9. Dentistry and clinical photography courtesy of Ariel Raigrodski, DMD, MS; Ceramics, Mr. Andreas Saltzer, CDT.

3M, ESPE, Impregum, Imprint, Lava, Protemp and RelyX are trademarks of 3M or 3M ESPE AG. Used under license in Canada. CEREC, Everest, Procera, Wieland are not trademarks or registered trademarks of 3M or 3M ESPE AG.

Created in USA
© 3M 2007

70-2009-3695-6