

“Our research showed that the marginal fit of Lava bridges was as good as metal-ceramic bridges. The zirconia substructure does not distort when firing the veneering porcelain, unlike metal substructures.”

John A. Sorensen, DMD¹
OREGON HEALTH SCIENCES UNIVERSITY



Lava™ All-Ceramic System



Trusted esthetics, trusted fit, trusted consistency



The Lava™ All-Ceramic System by 3M ESPE comes in 8 shades for a more natural look

The Lava™ All-Ceramic System

3M™ ESPE™ Lava™ All-Ceramic System is an innovative CAD/CAM technology for all-ceramic crowns and bridges on a zirconium oxide base. The esthetics and biocompatibility of Lava restorations represent the optimum in all-ceramic systems. Preparations require removal of less tooth structure, and cementation can be accomplished using proven, conventional techniques. Colorable frameworks that are thin and translucent ensure a natural and vital appearance. Lava All-Ceramic System provides one of the most durable and esthetic all-ceramic restorations available today.

Clinical Studies

More than 1500 cases, over 150 bridges (3-unit, 4-unit, up to 38 mm)

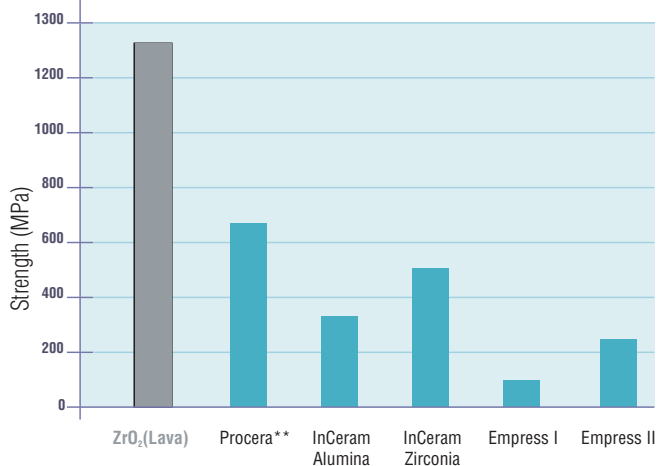
Length of service: 3+ years (ISC, San Diego, June 20–24, 2002)

Wear Performance

Comparable wear characteristics with Omega 900® and Empress II® porcelains

STRENGTH

Mechanical Properties — ISO 6872*

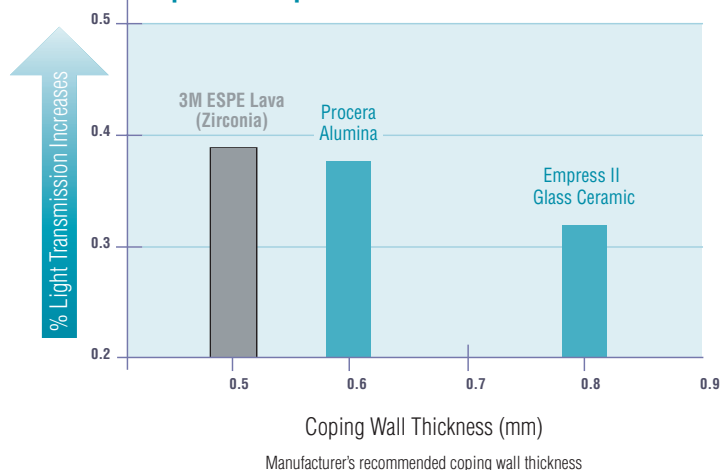


* 3M ESPE

** Wagner et al. J. Prost. Dent. 76 (2) 1996.

ESTHETICS

Optical Properties



mic System by 3M ESPE



Before



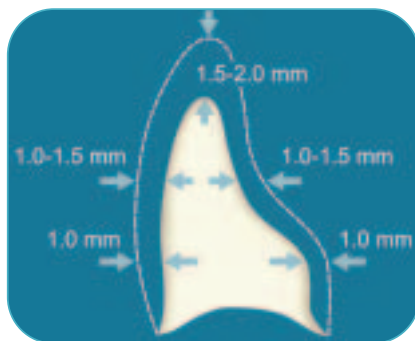
After



Key Features

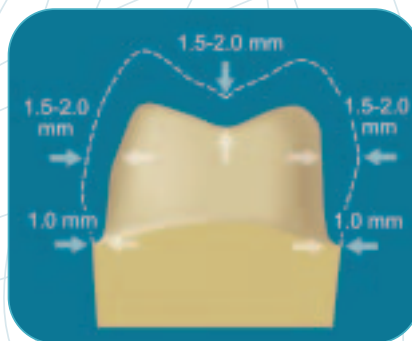
- Excellent esthetics and translucency
- Outstanding marginal fit
- Superior strength of zirconia with high fracture resistance
- Ideal for 3-unit bridge applications
- Preparation is similar to PFM
- Custom veneering ceramic

Clinical Preparation



Anterior Crown

- 1.5 – 2.0 mm incisal reduction
- 1.0 – 1.5 mm labial & lingual reduction
- Round the internal line angles
- Chamfer margin



Posterior Crown

- 1.5 – 2.0 mm occlusal/incisal reduction
- 1.0 – 2.0 mm axial reduction
- Round the internal line angles
- Chamfer margin

RelyX™ Unicem Cement by 3M ESPE



For a cement that is strong, versatile and easy to use, we recommend RelyX Unicem cement. This universal resin cement

was specifically formulated to be self-adherent and moisture tolerant, eliminating the need for a separate priming, etching or bonding step. It also greatly reduces potential for patient sensitivity.

Cementation of Lava™ All-Ceramic restorations can be accomplished with proven, conventional techniques using any of the following cements:

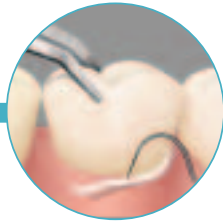
- 3M™ ESPE™ RelyX™ Unicem Self-Adhesive Universal Resin Cement
- 3M™ ESPE™ RelyX™ Luting Cement
- 3M™ ESPE™ Ketac™-Cem Glass Ionomer Cement

Cementation Technique* with RelyX™ Unicem Cement



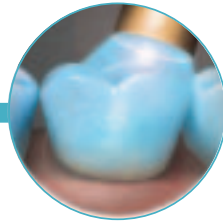
Dispensing

- Dispense cement directly onto bonding surface of restoration or directly onto tooth surface for inlays and onlays.



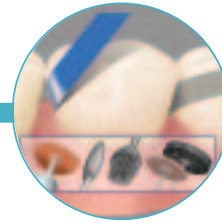
Placement

- Seat restoration and hold in place with light pressure.



Final Cure

- For translucent ceramic restorations, light-cure each surface for 20 seconds.



Finish and Polish

- Remove cement from exposed surfaces using appropriate instrument and polishing paste.

*For detailed instructions, please contact the 3M ESPE Hotline at 1-800-216-9502 ext. #100

3M ESPE Dental Lab Technical Hotline: 1-800-216-9502

3M ESPE Web site: www.3MESPE.com/labproducts

3M ESPE

Dental Products

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

Dental Products

3M Canada

Post Office Box 5757
London, Ontario N6A 4T1
Canada
1 800 265-1840 ext. 6229



Minimum 10%
Post-Consumer Fiber

Printed in U.S.A.
© 3M 2002
70-2009-3516-4

1. John A. Sorensen, DMD, PhD conducts product testing for 3M ESPE.

2. Photos courtesy of Ariel Raigrodski, DMD, Louisiana State University.

3M, ESPE, Ketac, Lava, and RelyX are trademarks of 3M or 3M ESPE AG. Empress is a registered trademark of Ivoclar Vivadent, Inc. InCeram is a trademark and Omega is a registered trademark of Vita Zahnfabrik. ProCera is a registered trademark of Nobel Biocare.