

Lava Zirconia

THE STRONGEST ALL-CERAMIC RESTORATION AVAILABLE

The strength you've been looking for in an aesthetic metal-free restoration is possible with Lava, the zirconia-based all-ceramic system by 3M™ ESPE™. The Lava system combines CAD/CAM technology with an extraordinarily translucent zirconia framework that can be custom colored creating a restoration strong enough for long span bridges, with outstanding fit and biocompatibility and the aesthetics your patients have come to expect.

The Lava Advantage

- **Zirconium oxide coping provides exceptional strength**
 - Polycrystalline zirconium oxide stabilized with yttrium actually inhibits fractures
 - Withstands stresses much greater than those occurring in the mouth
 - Ideal for 3 and 4 unit bridges
- **Excellent aesthetics**
 - The Y-TZP infrastructure is more translucent than other zirconia-based materials
 - 8 shades of zirconia framework for natural shade matching
 - Better ability to mask discolored abutment teeth, metal cores and metal implant abutments
- **Outstanding Marginal Fit — the sophisticated production process of the pre-sintered blanks ensures precise fit**
- **Biocompatibility**
 - No allergy potential or irritation of tissue
 - Low thermal conductivity provides greater comfort for your patient
 - Preparation similar to PFM — less tooth reduction than most all-ceramic systems
- **Conventional Cementation — easily accomplished with proven technique**



3M ESPE Lava Crowns and Bridges are Lava Zirconia-based restorations overlaid with an approved veneering ceramic. The zirconia copings and frameworks provide the strength while the veneering material provides the aesthetics. The system is used for crowns, implant abutments, and bridges with a span of up to 48 mm in length. Tooth preparation is similar to PFM preparations with only slightly less reduction occlusally and circumferentially. Dies are scanned and then the copings or frameworks are milled and sintered. The zirconia substructure is colored with one of eight available shades to coordinate with the final restorations. Lava restorations can be cemented with traditional or self-adhesive resin cements.

Lava restorations have definitely superior aesthetics when compared to PFM restorations, especially because the Lava coping can be shaded to closely simulate dentin, eliminating the graying caused by a metal substructure. Once the patient experiences the aesthetics of a Lava zirconia based restoration, they are pleased with the outcome.

3M Essential Zirconia: A superior solution for anatomical copings.

Lava crowns and bridges combine superior strength and durability with excellent aesthetics. Available in eight shades for natural shade matching. Utilizing an innovative CAD/CAM technology, Lava crowns and bridges are produced on a zirconium oxide glass-free polycrystalline base that result in high-strength, reliable restorations with excellent aesthetics and an outstanding marginal fit suitable for both anterior and posterior applications. Preparations require minimal removal of tooth structure and conventional cementation techniques.

Lava zirconia oxide copings can withstand stresses many times greater than those that occur in patients' mouths. Lava anterior copings can be fabricated as thin as 0.3 mm. Single-unit crowns and bridges with a maximum length of 38 mm.