Precision Solutions

Lava™ Ultimate

Implant Crown Restorative

My Shock-absorbing material with unique functionality

3M ESPE

Lava™ Ultimate Implant Crown Restorative is uniquely different

Lava™ Ultimate Restorative from 3M™ ESPE™ convinces with tailor-made features.

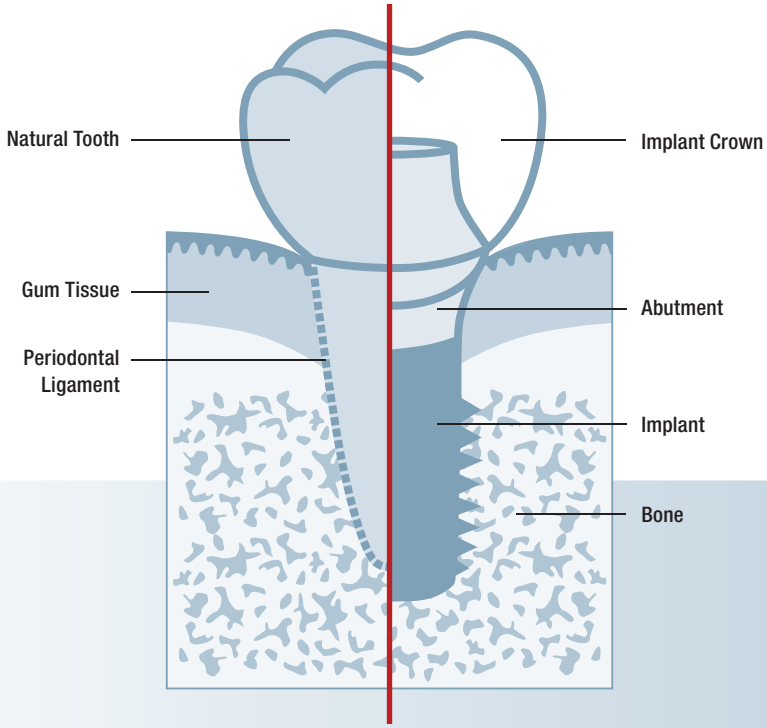
Crowns over implants always represent a special challenge. A tooth is naturally protected by the flex of the periodontal ligament, but the implant procedure removes the ligament, leaving no shock absorbance or sensory function – so the crown may fracture or chip. Lava Ultimate Implant Crown Restorative from 3M ESPE is uniquely formulated to absorb chewing forces and reduce stress to the implant.

Your benefits:

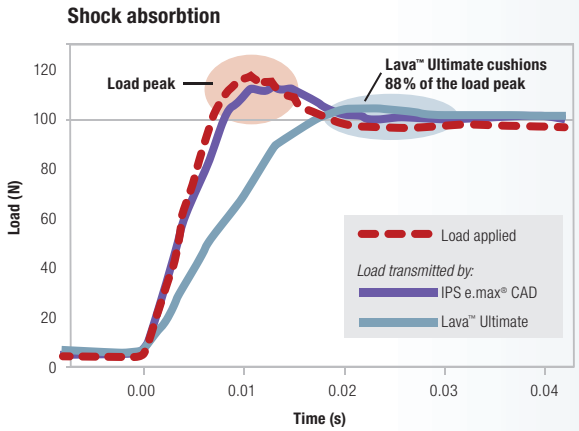
Durability
- Incredibly tough, 200 MPa flex strength
- Not brittle like glass
- Monolithic: No veneer chipping

Functional performance
- Highly resilient and shock-absorbent
- High wear resistance and gentle to the opposing teeth
- Quick and easy polish
- Easy to adjust, trepanate and reseal

Lasting aesthetics
- Brilliant and long-lasting polish
- Excellent stain resistance



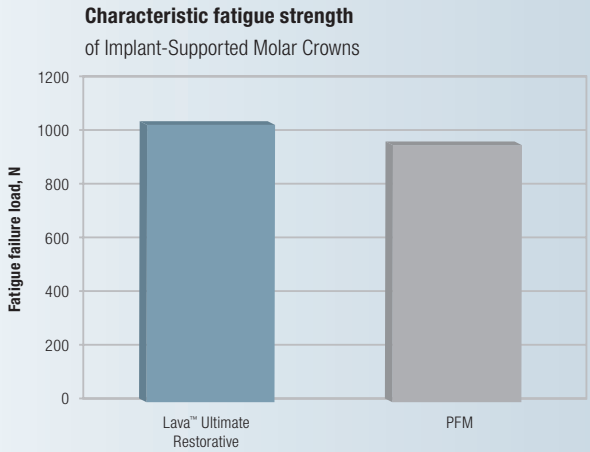
Shock absorbing – higher stress absorption than glass ceramics.



In an *in-vitro* test the force transmitted through material disks was measured. 3M™ ESPE™ Lava™ Ultimate Restorative cushions 88% of the load peak showing a higher stress absorption than the brittle glass ceramic material.

Source: University of Minnesota

Reliable like PFM – the gold standard on implants.



In a chewing simulation test, the fatigue strength of implant-supported crowns made of Lava™ Ultimate Implant Crown Restorative from 3M™ ESPE™ was not statistically different from that of metal-ceramic (PFM) crowns.

Source: Prof. Estevam A. Bonfante, UNIGRANRIO University, Brazil, IADR 2012

It's an easy choice

The perfect solution for implant crowns and your patients.

It will be easy to convince your patients of Lava™ Ultimate Restorative from 3M ESPE because it offers everything they desire… as well as exciting new features not found with other materials.

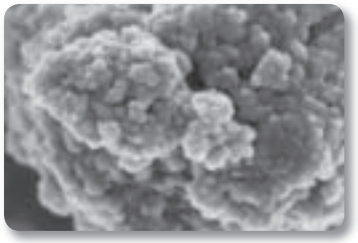
- **Durability: 10-year warranty on breakage**
- **Lasting beauty: Excellent stain resistance for colour stability**
- **Gentleness: Less wear to opposing enamel than glass ceramics**
- **Absorbs chewing forces and reduces stress to the implant**

10-Year 10 Limited Warranty*

*Please refer to our website www.3MESPE.xx/xxx for more information.

Nano technology makes the difference.

The key feature of Lava Ultimate Restorative is the innovative resin nano ceramic (RNC) technology by 3M ESPE. The material consists of almost 80% nano-ceramic components that are embedded in a highly cross-linked polymeric matrix. This composition results in Lava Ultimate Restorative's unique performance.



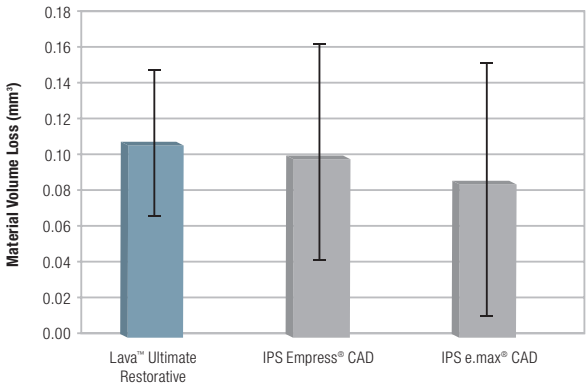
Ceramic clusters – a unique 3M™ ESPE™ nano-technology.

Source: 3M ESPE internal data

Excellent two-body wear properties.

Excellent wear resistance

Material Volume Loss (mm³) measured in two-body wear

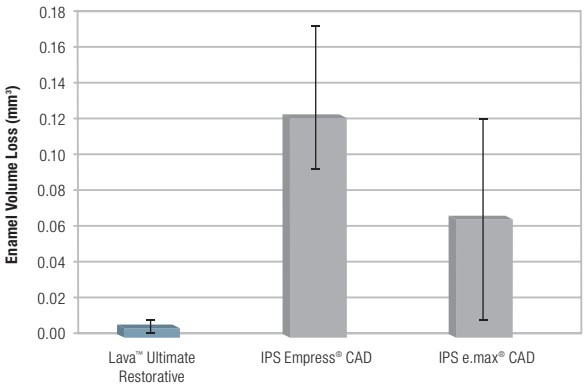


The *in-vitro* wear of 3M™ ESPE™ Lava™ Ultimate Implant Crown Restorative is statistically not different from IPS e.max® CAD and IPS Empress® CAD.

Source: University of Minnesota

Less wear to opposing dentition

Enamel Volume Loss (mm³) measured in two-body wear



3M™ ESPE™ Lava™ Ultimate Implant Crown Restorative shows statistically lower *in-vitro* wear on enamel than IPS e.max® CAD and IPS Empress® CAD. Lava™ Ultimate Restorative is gentle to opposing enamel.

Source: University of Minnesota

It's easy to adjust

Just do it yourself – Easily modify your restorations with additive and subtractive techniques.

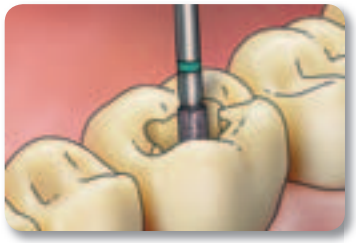
For dental crowns over implants, achieving correct occlusal contact design is of paramount importance. With the unique chemistry of Lava™ Ultimate Restorative from 3M ESPE, you can work on it like real tooth structure.

- It's easy to adjust and repolish – helps you to achieve the ideal occlusion
- It's easy to service the implant abutment and implant. Simply cut, trepanate, reseal and re-polish.

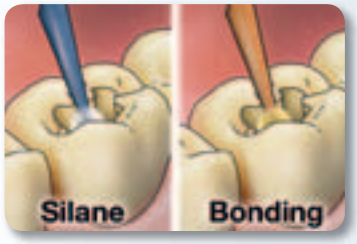
Easy modify

You can work on it just like you work on real tooth structure.

Just adjust and reseal it with a composite, and re-polish.

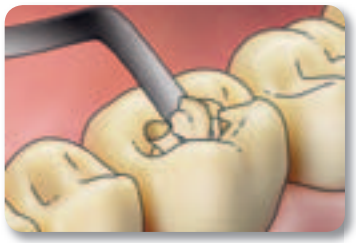


Roughen the Lava™ Ultimate Restorative at the restoration site.



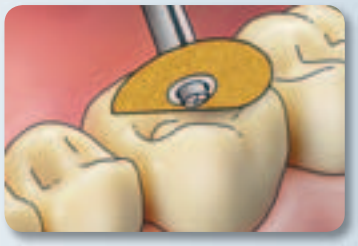
Use Scotchbond™ Universal Adhesive or apply silane and bonding according to the *Instructions for Use.*

Light-cure bonding agent according to the Instructions for Use.



Apply Filtek™ Supreme XTE Universal Restorative (or other methacrylate-based, light-cured restorative).

Light cure restorative material according to the *Instructions for Use.*



Polish the added restorative with a disc, e.g. Sof-Lex™ Discs. For final polish apply polishing compound with bristle brush.

You'll love it over implants

Lava™ Ultimate Implant Crown Restorative is amazing in every way – from its excellent durability to its unique functionality. Its innovative characteristics make it especially impressive for implant-supported crowns. And if it's reliable in that tough role, just imagine how it will perform in other single-unit indications.

Indications:

- **Crowns**
- **Onlays**
- **Inlays**

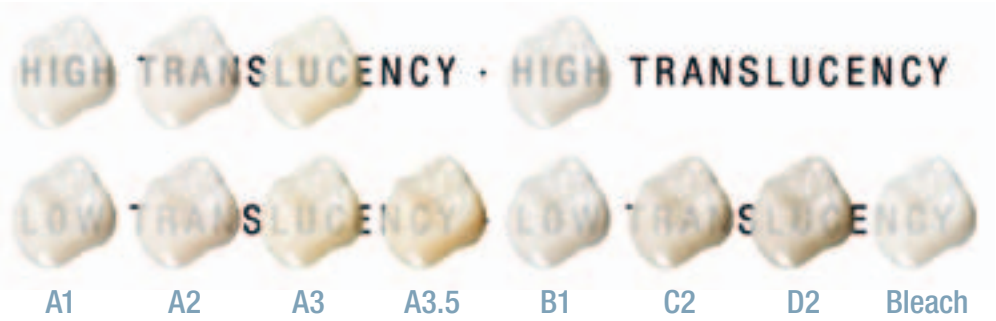
»This is the product of the future. Easy to use, strong and marvellous aesthetics.«

Dr. Sam Afshar – United Kingdom

Lava™ Ultimate Implant Crown Restorative from 3M ESPE

Available in eight shades and two translucencies.

It's easy to satisfy your patients with the natural-looking aesthetics of Lava™ Ultimate Implant Crown Restorative. It comes in the most common shades. High Translucency shades (HT) are available for enhancing small restorations like inlays and onlays, while the Low Translucency (LT) shades are ideal for crowns.



Cementation.

Lava Ultimate restorations must be cemented with a resin cement. 3M ESPE recommends RelyX™ Ultimate Adhesive Resin Cement with Scotchbond™ Universal Adhesive – the primer and adhesive are in one bottle.

The flexibility of this system enables you to etch the tooth preparation using a self-etch, selective-etch or a total-etch technique all with one system.

Ordering Informations:

Available from **Authorized Lava™ Milling Centres.**

Placeholder QR-Code

Lava™ Ultimate Restorative is also available through **straumann CARES® or CEREC® labs.**

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