

# IPS e.max® ZirCAD

Zirconium oxide ceramic (ZrO<sub>2</sub>)

## Cleaning the Restoration

Conditioning the IPS e.max ZirCAD restoration surface in preparation for cementation is highly recommended. Sandblasting can be done using Al<sub>2</sub>O<sub>3</sub> at max 1 bar of pressure and saliva can easily be removed by means of Ivoclean; a universal cleaning paste that effectively cleans the bonding surface of all types of restorations after try in. For adhesive cementation, sandblast, clean and condition the bonding surface using Monobond Plus.

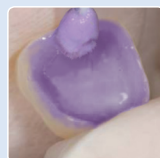


## Cementation of the Restoration

Esthetic cementation options are necessary for harmonious intraoral shade effects with all-ceramic restorations. IPS e.max ZirCAD restorations can be seated by means of adhesive cement or conventional cement. SpeedCEM® Plus, a self-adhesive, self-curing resin cement featuring optional light curing is particularly suitable for the placement of zirconium oxide restorations.



### Clean Restoration



- Rinse restoration with water, then air dry.
- Cover entire internal surface with Ivoclean.
- Allow to react for 20 seconds then rinse and air dry.

### Simplified Cementation with SpeedCEM PLUS



- Step 1: Seat
- Apply SpeedCEM Plus cement directly into the restoration.



- Step 2: Clean-Up
- After seating, light-cure each quarter surface for 1 sec. The cement will achieve a gel-like consistency for easy clean-up.
- Excess material can be easily removed with a scaler.



- Step 3: Final Cure
- Utilize Liquid Strip to eliminate oxygen-inhibited layer.
- Light-cure all margins for 20 sec.
- Rinse off Liquid Strip



- Step 4: Finish
- Finish the proximal surfaces and polish the restoration margins e.g. OptraPol.



## Shades and Sizes

IPS e.max Shade Navigation App  
5 easy steps to find the correct shade and translucency level



### MT Multi (Medium Translucency)



C 17



B 45

### Shades

A-D



A1

A2

A3

B1

B2

C2

D2

Bleach

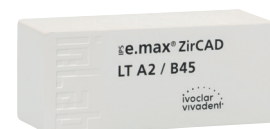


BL 1

### LT (Low Translucency)



C 17



B 45

A-D



A1

A2

A3

B1

B2

C2

D2

Bleach



BL

### Indications

Full-contour crowns, full-contour 3-unit bridges

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707241 Rev. 2 6/2019 12713

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**IPS e.max®**

**ZirCAD® MT Multi**  
Multi-translucent zirconia for chairside CAD/CAM

All ceramic,  
all you need.

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# IPS e.max® ZirCAD

Zirconium oxide ceramics (ZrO<sub>2</sub>)

IPS e.max® ZirCAD empowers dental professionals to create and complete esthetic monolithic zirconium oxide restorations efficiently in the dental office using a speed sintering procedure.

Two groups of materials combined into one – this is what makes IPS e.max ZirCAD MT Multi special: the 5Y-TZP zirconium oxide is translucent and imparts high levels of translucency to the incisal area, while the more opaque 4Y-TZP zirconium oxide lends high strength to the dentin area<sup>1</sup>.

In addition, the material features a specially designed gradual progression of shade and translucency, consisting of 60% dentin, 20% transition and 20% incisal zone. This distribution reflects the natural progression from dentin to incisal and imparts natural esthetic characteristics to the restorations, even without characterization.

**Processing options**

Once sintered, the restorations can either be

- glazed and fired
- stained (optional), glazed and fired
- polished

**Indications:**

- Crowns
- Three-unit bridges



## Overview of benefits

- Chairside zirconium oxide restorations allow practices to expand their portfolio of offerings
- Pleasing esthetics combined with high strength
- Natural fluorescence with IPS e.max CAD Crystall./Glaze Fluo paste
- Versatile cementation options: conventional, adhesive or self-adhesive

<sup>1</sup> Typical mean value of biaxial flexural strength: IPS e.max ZirCAD LT 1,200 MPa, MT Multi 850 MPa, R&D Ivoclar Vivadent, Schaan, Liechtenstein

## Coordinated system



**Dr Ronny Watzke**  
Ivoclar Vivadent, Schaan, Liechtenstein

“For me, IPS e.max ZirCAD zirconium oxide for chairside applications is the ideal complement to the IPS e.max system for posterior bridges.”



Starting situation: metal-ceramic bridge, IPS e.max® ZirCAD LT palatal view

Dr Lukas Enggist, Ivoclar Vivadent, Schaan, Liechtenstein

**Polishing technique**

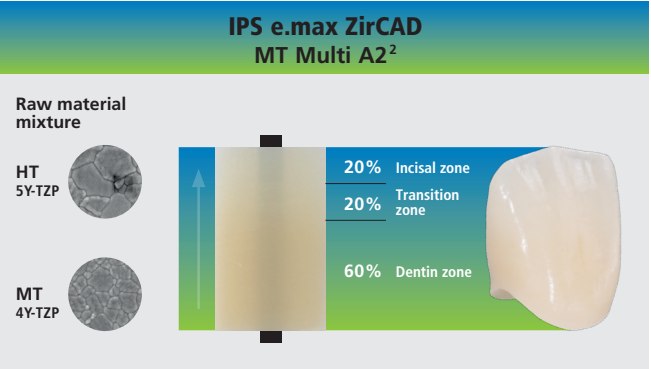


High-gloss polishing with OptraFine®

**Staining Technique**



Glazing with fluorescent IPS e.max®



- Two different raw powder components
- Genuine, natural progression of translucency from dentin to incisal

The Programat® CS4 furnace is a combination furnace perfect for fast sintering of full contour zirconia restorations in a single visit. Designed with the Dentist in mind the Programat CS4 is a stand-alone combination furnace. Firing programs are optimized for Ivoclar Vivadent materials and includes multiple open programs for the entry of a variety of materials.