

Expertise creates trust

IPS e.max[®] ZirCAD

Prime
Prime Esthetic

The Prime Zirconia for strong
esthetic restorations



Trust the material – Prime Zirconia, part of the e.max family

Prime Zirconia is a high-strength zirconium oxide designed for versatile applications. The material offers you exceptional quality and esthetic properties so that you can give your patients the best possible care. The Prime product family includes IPS e.max ZirCAD Prime and IPS e.max ZirCAD Prime Esthetic, which complement each other optimally in terms of their properties.



Included in our portfolio are:

- ✓ IPS e.max ZirCAD Prime, the generalist covering a wide range of restorations from crowns to wide-span bridges – on natural teeth or implants.
- ✓ IPS e.max ZirCAD Prime Esthetic, the specialist for natural-looking ^[1] and efficiently fabricated crowns and 3-unit bridges.

Ask your dental laboratory for crowns and bridges made of IPS e.max ZirCAD Prime and be impressed with their expressive esthetic appearance.

Durability

- ✓ Exceptionally high stability
- ✓ Flexural strength of 850–1200 MPa in the dentin zone^[2,3]
- ✓ Fracture toughness of 3.6 and 5.1 MPa m^{1/2}^[4,5]

High product quality

- ✓ Documented clinical reliability
- ✓ 96% survival rate after five years^[6]

High-end esthetics

- ✓ Due to the lifelike^[1] progression of shade and translucency and precise shading
- ✓ Comparable with lithium disilicate (LS₂)

Easy cementation

- ✓ Flexible cementation options
- ✓ Conventional, self-adhesive or adhesive

[1] At natural light conditions. The use of artificially generated UV or UV-like light may result in a different impression.

[2] IPS e.max ZirCAD Prime: typical mean value of biaxial flexural strength (dentin)

[3] IPS e.max ZirCAD Prime Esthetic: typical mean value of biaxial flexural strength (dentin)

[4] IPS e.max ZirCAD Prime: typical mean value of fracture toughness

[5] IPS e.max ZirCAD Prime Esthetic: typical mean value of fracture toughness

[6] Ivoclar, Scientific Report IPS e.max Vol.3, Study Report, 2018

GT Technology: Synonymous with prime quality

Not all the zirconia materials are the same. IPS e.max ZirCAD Prime offers a difference you can see. The material's high-class esthetic appearance is distinguished by its true-to-nature^[7] progression of shade and translucency and its optimized translucent properties. Its high flexural strength of up to 1200 MPa ensures stability and reliability – also for wide-span restorations.

Highly translucent incisal zone

- Optimally coordinated shade
- Highest level of translucency in the incisal zone
- Highly esthetic 5Y-TZP zirconium oxide
- Flexural strength: 650 MPa
- 3-mm thickness, irrespective of the disc thickness

Innovative transition zone

- Seamless, layer-free transition zone
- Natural shading from dentin to enamel
- Progressively higher translucency towards the incisal zone
- Progressively higher flexural strength towards the cervical area
- 4-mm thickness, irrespective of the disc thickness

High-strength dentin zone

- Maximum stability in the tooth neck area
- Coordinated shading and opacity
- IPS e.max ZirCAD Prime Esthetic: high-strength 4Y-TZP zirconium oxide exhibiting a flexural strength of 850 MPa
- IPS e.max ZirCAD Prime: high-strength 3Y-TZP zirconium oxide exhibiting a flexural strength of 1200 MPa
- Thickness varies depending on the thickness of the disc (7–18 mm)

GT Technology is the key to the seamless progression of shade and translucency and the exceptional accuracy of fit. This technology combines two zirconium oxide raw materials, both with different strengths and optical properties, into a single disc.



"It has become my number one choice for strength and beauty.

It's an esthetic zirconia that is strong enough for splints and bridges and translucent enough to be comfortably used in anterior cases. Its GT Technology creates strength as well as translucency, to create a functional, beautiful restorative."

Dr Auster, USA

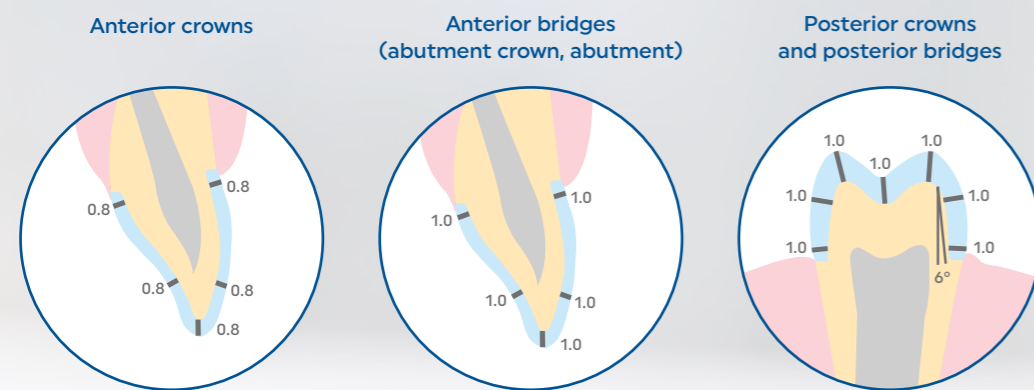


[7] At natural light conditions. The use of artificially generated UV or UV-like light may result in a different impression.

Quality you can be proud of

Familiar preparation for reliable processes

The basic preparation guidelines for all-ceramic restorations apply to the preparation for restorations made of IPS e.max ZirCAD Prime, such as preparing rounded inner edges and angles in addition to observing the minimum required wall thicknesses.



Suitable for wide-span restorations, including restorations on implants

Your dental laboratory can fabricate multi-unit bridges with up to two pontics. Whether your restorations are implant-retained or not, you stay flexible.

Impressive results, even on dark preparations

The translucency of the dentin zone is adjusted to provide outstanding esthetic results even on dark preparations.



Dr A. Alwazzan / Y. Momma, USA



Fit for various requirements

Enjoy flexibility with a material that is suitable for various application possibilities: veneered anterior restorations alongside monolithic posterior restorations: all made from a single material, providing a harmonious overall appearance.



Natural-looking esthetics and precise shading

Given its optimized translucency, seamless progression of shade and translucency and precise shading, IPS e.max ZirCAD Prime provides the ideal basis to achieve natural esthetic results in any restoration, whether monolithic, partially veneered or fully veneered.



Domenico Vinci, Switzerland

Speedcem® Plus

Simple steps to success

When placing IPS e.max ZirCAD Prime restorations, you can choose between adhesive, self-adhesive and conventional placement methods.

Speedcem® Plus is a clinically proven self-adhesive resin cement. It is suitable for the permanent cementation of high-strength zirconia and metal-supported restorations – on natural tooth structure and on implant abutments.

Reliable

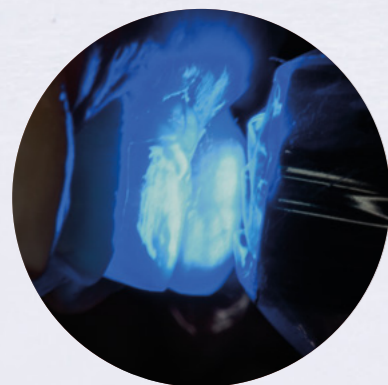
- ✓ Strong self-curing properties on zirconia, metal and dentin surfaces without any light activation
- ✓ High moisture tolerance due to consistently high bond strength on moist and dry dentin
- ✓ Optimum cleaning of saliva-contaminated restorations after the try-in with Ivoclean

Simple

- ✓ Straightforward application protocol involving only few steps
- ✓ No additional dentin adhesive or primer is required when cementing zirconia restorations

Convenient

- ✓ As a result of its high radiopacity, the resin cement is easy to distinguish from tooth structure and secondary caries
- ✓ Excess cement is easy to remove after tack-curing with a polymerization light, without any waiting times



Easy removal of excess after preliminary light-curing

Efficient polishing with OptraGloss®

Smooth surfaces reduce the formation of plaque and the risk of antagonist wear. Using the OptraGloss universal polishers, ceramic restorations can be polished to a high gloss in no time at all.

Once the occlusion has been adjusted, either extraorally or intraorally, the contacts of IPS e.max ZirCAD Prime zirconia restorations are polished to a lustrous finish:

- Diamond pre-polisher for pre-polishing (dark blue)
- Diamond high-gloss polisher for high-gloss polishing (light blue)

Lustrous results

Two-step polishing of IPS e.max ZirCAD Prime without any polishing paste: for smooth and lustrous surfaces



