# IPS e.max® 7irCAD

# Prime and Prime Esthetic

# Instructions for Dentists

### For the fabrication of

Crowns







✓ 4 or more unit bridges with max. 2 pontics (only



IPS e.max ZirCAD Prime: Flexural strength [2]: 1200 MPa Fracture toughness [3]: > 5 MPa • m1/2

IPS e.max ZirCAD Prime Esthetic: Flexural strength [2]: 850 MPa Fracture toughness [3]: 3.6 MPa • m1/2

[1] For all bridges, the specified minimum connector crosssection must be positioned in the dentin area of the disc. IPS e.max ZirCAD Prime Esthetic disc is only suitable for bridges with 3 units. Minimum thickness and connector dimensions are as follows.

Anterior region: connector dimensions 12mm², height 4mm, width 3mm. Posterior region: connector dimensions

IPS e.max ZirCAD Prime disc is suitable for bridges up to 14 units in the USA. It is limited to 6 units with a minimum of 2 connected pontics in Canada. Minimum thickness and connector dimensions

Anterior region: 3 unit bridges connector dimensions 9mm<sup>2</sup>, 4 and multi-unit bridges with 2 pontics connector dimensions 9mm<sup>2</sup>, Cantilever bridges with one pontic connector dimensions 9mm<sup>2</sup>.

Posterior region: 3 unit bridges connector dimensions of 9mm<sup>2</sup>, 4- and multi-unit bridges with 2 pontics connector dimensions 12mm2, height: 4 mm, width: 3 mm. Cantilever bridges with one pontic 12mm<sup>2</sup>, Height: 4 mm, width: 3

- R&D Ivoclar Vivadent Schaan, Liechtenstein
- Typical mean value of biaxial flexural strength (dentin), R&D Ivoclar Vivadent AG, Schaan, Liechtenstein
- [3] Measurement of the fracture toughness according to Vickers indenter method (dentin), R&D Ivoclar Vivadent AG, Schaan, Liechtenstein
- [4] Only IPS e.max ZirCAD Prime. IPS e.max ZirCAD Prime Esthetic restorations may not be fully veneered.

## Preparation

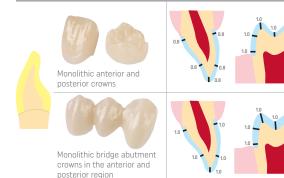
#### Observe the general rules for all-ceramics:

- Prepare no angles or edges
- Prepare a shoulder with rounded inner edges or a chamfer at an angle of 10°-30°. Evenly reduce the anatomical shape while observing the stipulated minimum wall
- For conventional and/or self-adhesive cementation, the preparation must demonstrate retentive surfaces (preparation height at least 4 mm).









#### Minimum preparation depth for veneered restorations<sup>t</sup>

posterior region



# Cementation of crowns and bridges

Adhesive	Self-adhesive/ conventional
Cleaning with Al <sub>2</sub> O <sub>3</sub> (25 – 70 µm) at a maximum pressure of 1 bar (14.5 psi).  Cleaning with Ivoclean® after try-in	
Variolink® Esthetic	SpeedCEM® Plus ZirCAD® Cement
	Cleaning with Al <sub>2</sub> 0 maximum pressure Cleaning with Ivoo 60 s with Monobond® Plus















For more detailed information on cementation go to: www.cementation-navigation.com

The range of available products may vary from country to country

# Adjustments, polishing

Perform wet processing intraorally and dry processing extraorally.

ivoclar

	Zirconium oxide (ZrO <sub>2</sub> )	Lithium disilicate glass-ceramic (LS <sub>2</sub> ) and zirconium oxide (ZrO <sub>2</sub> )
Large and small adjustments	Fine diamond	Extra-fine diamond
Polishing	2-step polishing with OptraGloss	2-step polishing with OptraGloss

- Maximum rotation speed 10 000 rpm
- <sup>2</sup> Intraorally Maximum rotation speed 15 000 rpm
- Extraorally Maximum rotation speed 20 000 rpm

Use fine diamonds for large and small adjustments, Smooth surfaces reduce plague accumulation and the risk of abrasion for

After extraoral or intraoral grinding, the contact points can be polished to a high gloss using OptraGloss®.

**( € 0123 △ △** 



Rx only For dental use only! www.ivnclar.com



United States: Ivoclar | 175 Pineview Drive | Amherst | New York 14228 716-691-0010 | 800-533-6825 | Fax: 716-691-2285

Canada: Ivoclar | 1 - 6600 Dixie Road | Mississauga | Ontario L5T 2Y2 905-670-8499 | 800-263-8182 | Fax: 905-670-3102

ivoclar.com