

# IPS e.max® ZirCAD

## Step-by-step for CEREC® SpeedFire<sup>1</sup>

All ceramic,  
all you need.

1

### Fabrication process

According to the IPS e.max® ZirCAD CHAIRSIDE Instructions for Use.



2

- Aim for the largest possible dimensions when designing the connectors.
- The height of the connector is more important for the stability than the width. Doubling the width only results in double the stability, while doubling the height results in up to four times the stability.
- The greater the distance between the abutment teeth, the higher the mechanical stress on the construction and the exerted masticatory forces are going to be.

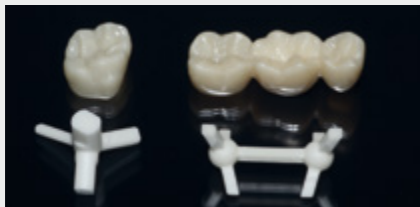
Preparing for sintering



	IPS e.max ZirCAD MT Multi Medium Translucency Multi			IPS e.max ZirCAD LT Low Translucency	
<b>Predrying</b>	11 min	15 min	15 min	11 min	15 min
<b>Sintering</b> (after dry milling <sup>2</sup> )	49 min <sup>2</sup>	49 min <sup>2</sup>	2 h 22 min <sup>2</sup>	19 min <sup>2</sup>	29 min <sup>2</sup>
<b>Predrying and sintering</b> (after wet milling <sup>3</sup> )	1 h <sup>2</sup>	1 h 4 min <sup>2</sup>	2 h 37 min <sup>2</sup>	30 min <sup>2</sup>	44 min <sup>2</sup>

3

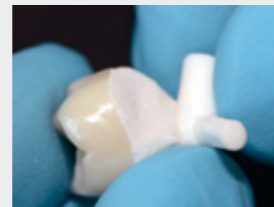
Preparing for glazing



Select the suitable Glaze Supports Single Unit (crowns) or Multi Unit (bridges).



Fill the restoration with IPS Object Fix Putty or Flow and press the selected Glaze Support into it.



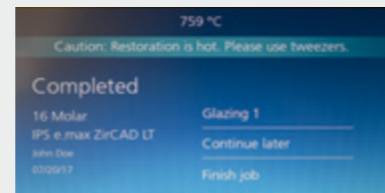
Smooth out displaced IPS Object Fix Putty or Flow with a plastic spatula from the margin towards the support pin so that the pin is secured in the paste and the restoration wall is exactly supported.



Characterization and glazing are performed according to the IPS e.max ZirCAD CHAIRSIDE Instructions for Use.



Place the restoration in the centre of the CEREC SpeedFire (max. 2 crowns or 1 bridge per firing cycle).



Start program (applies for IPS e.max CAD Crystall./Shades/Stains and Glaze).

Observe the following points when positioning the restorations on the sinter tray

	correct	ok	incorrect
<b>Single-tooth restorations Anterior region</b>	 Place the restorations on their labial surface.	 Place the restorations on their oral surface.	 Do not place the restorations on the crown margins.
<b>Single-tooth restorations Posterior region</b>	 Place the restorations on their occlusal surface.		 Do not place the restorations on the crown margins.
<b>Three-unit anterior bridges</b>	 Place the restorations on their labial surface and provide support to the pontic. If the restoration "tilts", select an alternative position.	 Position on the incisal margin. The pontic must also rest on the sinter tray.	 Do not support the restorations exclusively at the marginal edges.
<b>Three-unit posterior bridges</b>	 Place the restorations on the buccal or oral surfaces depending on the curvature. Abutment crowns do not have to come into contact with the sinter tray. The pontic must be supported.	 Do not support the restorations exclusively at crown margins. The pontic must be supported at the basal side.	 If the pontic does not support the restoration, the restoration must not be positioned on the occlusal surface.

Points of contact of the restoration with the sinter tray.



#### The following notes should be observed:

- Only sinter thoroughly dry restorations with the program option "Sintering".
- Do not use IPS e.max CAD Crystall./Add-on materials, as building-up a vacuum is not possible.
- Do not use the IPS e.max CAD Crystallization Trays and Pins. It is imperative that the Glaze Supports (Dentsply Sirona) are used.
- In addition to this information, the stipulations of the "CEREC SpeedFire<sup>1</sup>" Operating Instructions and the "IPS e.max ZirCAD CHAIRSIDE Instructions for Use" must be observed.

<sup>1</sup> not a registered trademark of Ivoclar Vivadent AG

<sup>2</sup> pure sintering time, irrespective of the shade

<sup>3</sup> can only be run once