IPS e.max® CAD – STEP-BY-STEP FOR CEREC®

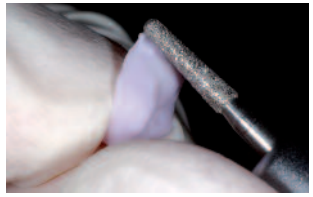
ivoclar vivadent®

1 Preparation / CAD/CAM process / Try-in

Observe the preparation guidelines and minimum thicknesses for **preparation**

As a preparation for intra-oral imaging, cover the preparation with **IPS Contrast Spray Chairside**

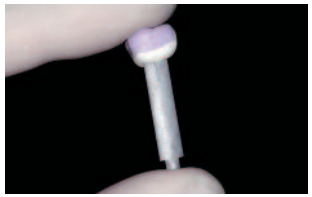
CAD/CAM process
Mill the restoration from **IPS e.max CAD**



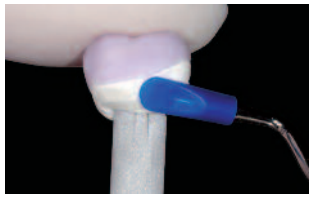
Smooth out the attachment points and finish the restoration. **Observe the minimum thickness and contact points.**

Try in the restoration in its blue state. Check and adjust the occlusion/articulation, if required.

2 Preparation for combination firing* (Crystallization and Glaze)

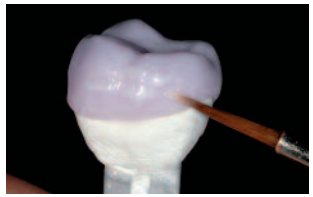


Fill the restoration with **IPS Object Fix Putty** and press the **IPS e.max CAD Crystallization Pin** into the Putty material.



Adapt IPS Object Fix Putty to the pin and crown margin. Avoid contamination of the outer side of the restoration.

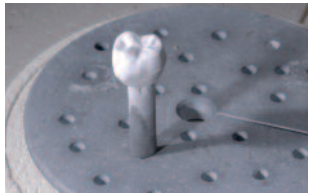
Remove any **contamination** from the outer surface of the crown using a brush dampened in water.



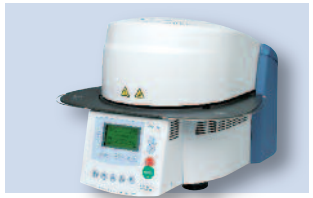
Apply individual characterizations using **IPS e.max CAD Crystall./ Shades and Stains**.

Spray an even and covering layer of **IPS e.max CAD Crystall./ Glaze Spray** onto the restoration.

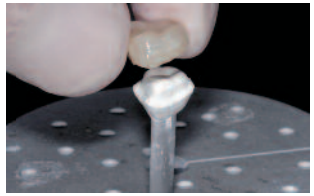
3 Combination firing / Cleaning / Try-in



Place the restoration in the center of the **IPS e.max CAD Crystallization Tray**.



Conduct the **combination firing** based on the number of restorations and the type of glazing using the **Programat CS**.

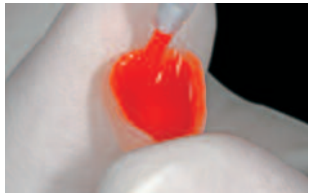


After cooling, **remove** the **restoration** from the auxiliary firing paste.

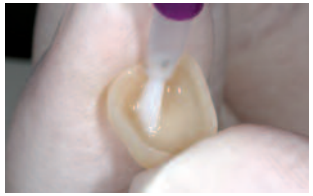
Clean the **restoration** with ultrasound in a water bath.

After crystallization, **try in** the restoration.

4 Preparation for cementation / Placement



Before final placement, **etch the restoration** for **20 seconds** using **IPS Ceramic Etching Gel.**



Allow **Monobond-S** to react for 60 seconds and dry with air.

Clean the preparation, rinse with water and blow dry with air.

Apply Multilink Automix directly into the restoration.

IPS e.max CAD restoration in situ.

* IPS e.max CAD Crystall./Glaze Paste may optionally be used to glaze the restoration. For the fabrication of inlays and onlays, observe the Instructions for Use of IPS e.max chairside!

IPS e.max® CAD

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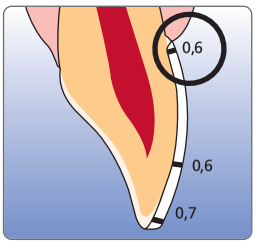
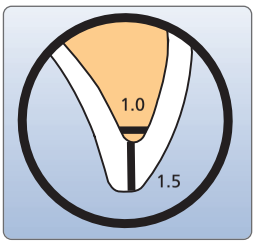
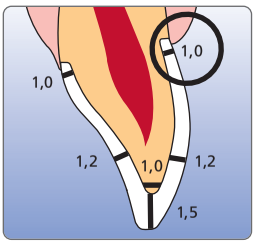
Preparation guidelines

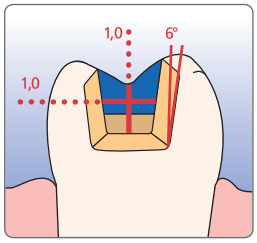


Veneer

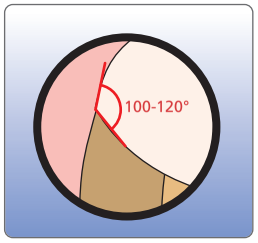


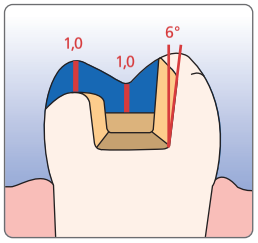


Anterior crown

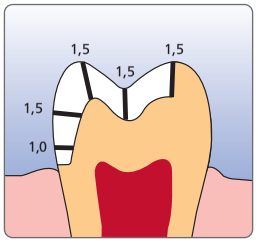


Inlay

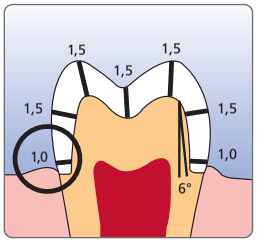




Onlay



Partial crown



Posterior crown

Firing parameters for IPS e.max CAD in the Programat CS

Crystallization/Glaze (max. 6 restorations)

Furnace	Stand-by temperature B [°C/°F]	Closing time S [min]	Closing time t_1 [°C/°F/min]	Firing temperature T_1 [°C/°F]	Holding time H_1 [min]	Heating rate t_2 [°C/°F/min]	Firing temperature T_2 [°C/°F]	Holding time H_2 [min]	Vacuum 1 1_1 [°C/°F] 1_2 [°C/°F]	Vacuum 2 2_1 [°C/°F] 2_2 [°C/°F]	Longterm cooling L [°C/°F]	Longterm t_L [°C/°F/min]
Programat CS Program 1	403 / 757	6:00	90 / 162	820 / 1508	0:10	30 / 54	840 / 1544	7:00	550/820 1022 / 1508	820/840 1508 / 1544	700 / 1292	0

Correction firing

Furnace	Stand-by temperature B [°C/°F]	Closing time S [min]	Closing time t_1 [°C/°F/min]	Firing temperature T_1 [°C/°F]	Holding time H_1 [min]	Heating rate t_2 [°C/°F/min]	Firing temperature T_2 [°C/°F]	Holding time H_2 [min]	Vacuum 1 1_1 [°C/°F] 1_2 [°C/°F]	Vacuum 2 2_1 [°C/°F] 2_2 [°C/°F]	Longterm cooling L [°C/°F]	Longterm t_L [°C/°F/min]
Programat CS Program 2	403 / 757	6:00	90 / 162	820 / 1508	0:10	30 / 54	840 / 1544	3:00	550/820 1022 / 1508	820/840 1508 / 1544	700 / 1292	0

Speed Crystallization/Glaze Spray (max. 2 restorations with Glaze Spray)

Furnace	VZ Stand-by temperature B [°C/°F]	Closing time S [min]	Closing time t_1 [°C/°F/min]	Firing temperature T_1 [°C/°F]	Holding time H_1 [min]	Heating rate t_2 [°C/°F/min]	Firing temperature T_2 [°C/°F]	Holding time H_2 [min]	Vacuum 1 1_1 [°C/°F] 1_2 [°C/°F]	Vacuum 2 2_1 [°C/°F] 2_2 [°C/°F]	Longterm cooling L [°C/°F]	Longterm t_L [°C/°F/min]
Programat CS Program 3	403 / 757	1:30	90 / 162	820 / 1508	0:10	30 / 54	840 / 1544	7:00	550/820 1022 / 1508	820/840 1508 / 1544	700 / 1292	0

Please note:
- If a glaze past is used, Speed Crystallization/Glaze Spary is contraindicated.
- Speed Crystallization and Crystallization/Glaze are not suitable for the crystallization of IPS e.max CAD MO!

Cementation

IPS e.max CAD (lithium disilicate glass-ceramic)

Indication	Veneers, Inlays, partial crowns	Anterior and posterior crowns	
Cementation method	adhesive	adhesive	self-adhesive*/ conventional
Etching	20 sec. with IPS Ceramic Etching Gel	20 sec. with IPS Ceramic Etching Gel	
Conditioning/Silanating	60 sec. with Monobond-S	60 sec. with Monobond-S	----[1)]
Cementation material	Variolink Veneer, Variolink II, Multilink Automix	Variolink II, Multilink Automix, Vivaglass CEM	

1) For self-adhesive cementation, the restorations must be silanized.

* self-adhesive powder/liquid systems

627931/0409/e/BVD