

# Application of IPS Ivocolor Shades, Essences and Glaze



## Option 2

Characterizing and glazing *crystallized, tooth-shaded* restorations

### 1 Finishing and checking



Finish margins with suitable instruments.



Finish functional areas with a fine diamond.



Check the proximal and occlusal contact points.

### 2 Crystallization



Fill the inner aspect of the restoration with a generous amount of IPS Object Fix Putty or Flow and place the restoration on the IPS e.max CAD Crystallization Tray.



Crystallize the restoration without Shades, Stains or Glaze.

#### Crystallization LT, MT, HT

Furnaces Programat	Stand-by temperature B [°C/°F]	Closing time S [min]	Heating rate t <sub>1</sub> [°C/°F/min]	Firing temperature T <sub>1</sub> [°C/°F]	Holding time H <sub>1</sub> [min]	Heating rate t <sub>2</sub> [°C/°F/min]	Firing temperature T <sub>2</sub> [°C/°F]	Holding time H <sub>2</sub> [min]	Vacuum 1 T <sub>1</sub> [°C/°F] T <sub>2</sub> [°C/°F]	Vacuum 2 T <sub>1</sub> [°C/°F] T <sub>2</sub> [°C/°F]	Long-term cooling L [°C/°F]	Cooling rate t <sub>1</sub> [°C/°F/min]
P300/P500/P700	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
P310/P510/P710	403/757	6:00	90/162	830/1526	0:10	30/54	850/1562	7:00	550/830 1022/1526	830/850 1526/1562	710/1310	0
CS/CS2/CS3	Program 1											

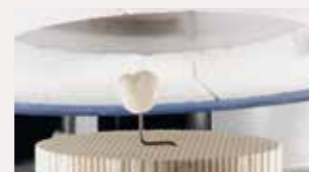
### 3 Stains and Glaze firing (conduct together or separately depending on the situation)



Apply IPS Ivocolor Glaze Paste or Powder before Glaze firing.



Apply IPS Ivocolor Essences and Shades before the Stains firing.



Conduct the Stains and Glaze firing on a honey-combed tray using the stipulated parameters.

#### Firing parameters for the Stain/Glaze firing with IPS Ivocolor Shade, Essence, Glaze

	Stand-by temperature B [°C/°F]	Closing time * S [min]	Heating rate t <sub>1</sub> [°C/°F/min]	Firing temperature T [°C/°F]	Holding time H [min]	Vacuum 1 V <sub>1</sub> [°C/°F]	Vacuum 2 V <sub>2</sub> [°C/°F]	Long-term cooling ** L [°C/°F]	Cooling rate t <sub>1</sub> [°C/°F/min]
Stain/Glaze firing	403/757	IRT/ 6:00	60/108	710/1310	01:00	450/842	709/1308	0	0

\* IRT standard mode

\*\* If the layer thickness is more than 2 mm on the IPS e.max CAD object, long-term cooling (L) to 500°C/932°F is required.

### Optional Corrective firing with IPS e.max Ceram Add-On



Apply IPS e.max Ceram Add-On on the areas to be supplemented and carry out the Add-On firing.

#### Firing parameters for the Add-On after Glaze firing with IPS e.max Ceram Add-On

	Stand-by temperature B [°C/°F]	Closing time * S [min]	Heating rate t <sub>1</sub> [°C/°F/min]	Firing temperature T [°C/°F]	Holding time H [min]	Vacuum 1 V <sub>1</sub> [°C/°F]	Vacuum 2 V <sub>2</sub> [°C/°F]	Long-term cooling ** L [°C/°F]	Cooling rate t <sub>1</sub> [°C/°F/min]
Add-On after Glaze firing	403/757	IRT/ 6:00	50/90	700/1292	01:00	450/842	699/1290	0	0

\* IRT standard mode

IPS e.max<sup>®</sup> CAD

CAD

## Staining Technique

with IPS e.max<sup>®</sup> CAD Crystall./  
or IPS Ivocolor



CE 0123

Rx ONLY  
For dental use only!



Manufacturer:  
Ivoclar Vivadent AG, 9494 Schaan/Liechtenstein  
[www.ivoclarvivadent.com](http://www.ivoclarvivadent.com)



see instructions

Date information prepared: 2016-04, Rev. 1  
636282/EN

ivoclar  
vivadent  
technical

# Application of IPS e.max® CAD Crystall./Shades, Stains, Glaze



## Option 1a

Characterizing and glazing *non-crystallized, blue* restorations

### 1 Finishing and checking



Finish margins with suitable instruments.



Finish functional areas with a fine diamond.



Check the proximal and occlusal contact points.

### 2 Preparation for Crystallization



Fill the inside of the crown with IPS Object Fix Putty or Flow. Press the IPS e.max CAD Crystallization Pin deeply into the IPS Object Fix material.



Adapt the IPS Object Fix material to the Pin and the crown margin. Prevent contamination of the outer restoration surface.



Carefully remove possible contamination with a brush dampened with water.

### 3 Characterization with IPS e.max CAD Crystall./ Glaze Paste and Shades, Stains



Apply IPS e.max CAD/Crystall./Glaze Paste in an even layer.



Characterizations using IPS e.max CAD Crystall./ Shades and Stains.



Use the IPS e.max CAD Crystallization Tray for crystallization.

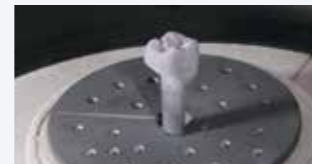
### or Characterization with IPS e.max CAD Crystall./ Shades, Stains and Glaze Spray



Characterization using IPS e.max CAD Crystall./ Shades and Stains.



Spray the IPS e.max CAD Crystall./Glaze Spray on the unfired Shades and Stains.



Use the IPS e.max CAD Crystallization Tray for crystallization.

Crystallization LT, MT, HT with or without application of IPS e.max CAD Crystall./ materials

Furnaces Programat	Stand-by temperature B [°C/°F]	Closing time S [min]	Heating rate t <sub>1</sub> [°C/°F/min]	Firing temperature T <sub>1</sub> [°C/°F]	Holding time H <sub>1</sub> [min]	Heating rate t <sub>2</sub> [°C/°F/min]	Firing temperature T <sub>2</sub> [°C/°F]	Holding time H <sub>2</sub> [min]	Vacuum 1 1 <sub>1</sub> [°C/°F] 1 <sub>2</sub> [°C/°F]	Vacuum 2 2 <sub>1</sub> [°C/°F] 2 <sub>2</sub> [°C/°F]	Long-term cooling L [°C/°F]	Cooling rate t <sub>c</sub> [°C/°F/min]
P300/P500/P700	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
P310/P510/P710	403/757	6:00	90/162	830/1526	0:10	30/54	850/1562	7:00	550/830 1022/1526	830/850 1526/1562	710/1310	0
CS/CS2/CS3	Program 1											

Corrective firing – Stain/Glaze firing

Furnaces Programat	Stand-by temperature B [°C]	Closing time S [min]	Heating rate t <sub>1</sub> [°C/min]	Firing temperature T <sub>1</sub> [°C]	Holding time H <sub>1</sub> [min]	Heating rate t <sub>2</sub> [°C/min]	Firing temperature T <sub>2</sub> [°C]	Holding time H <sub>2</sub> [min]	Vacuum 1 1 <sub>1</sub> [°C] 1 <sub>2</sub> [°C]	Vacuum 2 2 <sub>1</sub> [°C] 2 <sub>2</sub> [°C]	Long-term cooling L [°C/°F]	Cooling rate t <sub>c</sub> [°C/°F/min]
P300/P500/P700	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
P310/P510/P710	403/757	6:00	90/162	830/1526	0:10	30/54	850/1562	3:00	550/830 1022/1526	830/850 1526/1562	710/1310	0
CS/CS2/CS3	Program 2											

### Optional

Corrective firing with IPS e.max CAD Crystall./ Shades, Stains, Glaze or Add-On

## Option 1b

Characterizing and glazing *crystallized, tooth-shaded* restorations

### 1 Finishing and checking



Finish margins with suitable instruments.

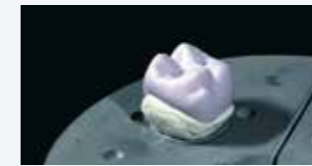


Finish functional areas with a fine diamond.

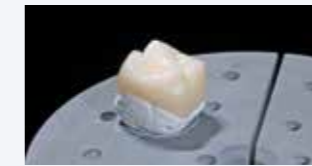


Check the proximal and occlusal contact points.

### 2 Crystallization



Fill the inner aspect of the restoration with a generous amount of IPS Object Fix Putty or Flow and place the restoration on the IPS e.max CAD Crystallization Tray.



Crystallize the restoration without Shades, Stains or Glaze.

Crystallization LT, MT, HT with or without application of IPS e.max CAD Crystall./ materials

Furnaces Programat	Stand-by temperature B [°C/°F]	Closing time S [min]	Heating rate t <sub>1</sub> [°C/°F/min]	Firing temperature T <sub>1</sub> [°C/°F]	Holding time H <sub>1</sub> [min]	Heating rate t <sub>2</sub> [°C/°F/min]	Firing temperature T <sub>2</sub> [°C/°F]	Holding time H <sub>2</sub> [min]	Vacuum 1 1 <sub>1</sub> [°C/°F] 1 <sub>2</sub> [°C/°F]	Vacuum 2 2 <sub>1</sub> [°C/°F] 2 <sub>2</sub> [°C/°F]	Long-term cooling L [°C/°F]	Cooling rate t <sub>c</sub> [°C/°F/min]
P300/P500/P700	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
P310/P510/P710	403/757	6:00	90/162	830/1526	0:10	30/54	850/1562	7:00	550/830 1022/1526	830/850 1526/1562	710/1310	0
CS/CS2/CS3	Program 1											

### 3 Characterization with IPS e.max CAD Crystall./ Glaze Paste and Shades, Stains



Apply IPS e.max CAD/Crystall./Glaze Paste in an even layer.



Characterization using IPS e.max CAD Crystall./ Shades and Stains.



Use the IPS e.max CAD Crystallization Tray for the firing.

### or Characterization with IPS e.max CAD Crystall./ Shades, Stains and Glaze Spray



Characterization using IPS e.max CAD Crystall./ Shades and Stains.



Spray the IPS e.max CAD Crystall./Glaze Spray on the unfired Shades and Stains.



Use the IPS e.max CAD Crystallization Tray for the firing.

Corrective firing – Stain/Glaze firing

Furnaces Programat	Stand-by temperature B [°C]	Closing time S [min]	Heating rate t <sub>1</sub> [°C/min]	Firing temperature T <sub>1</sub> [°C]	Holding time H <sub>1</sub> [min]	Heating rate t <sub>2</sub> [°C/min]	Firing temperature T <sub>2</sub> [°C]	Holding time H <sub>2</sub> [min]	Vacuum 1 1 <sub>1</sub> [°C] 1 <sub>2</sub> [°C]	Vacuum 2 2 <sub>1</sub> [°C] 2 <sub>2</sub> [°C]	Long-term cooling L [°C/°F]	Cooling rate t <sub>c</sub> [°C/°F/min]
P300/P500/P700	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
P310/P510/P710	403/757	6:00	90/162	830/1526	0:10	30/54	850/1562	3:00	550/830 1022/1526	830/850 1526/1562	710/1310	0
CS/CS2/CS3	Program 2											

Corrective firing – Stain/Glaze firing

Furnaces Programat	Stand-by temperature B [°C]	Closing time S [min]	Heating rate t <sub>1</sub> [°C/min]	Firing temperature T <sub>1</sub> [°C]	Holding time H <sub>1</sub> [min]	Heating rate t <sub>2</sub> [°C/min]	Firing temperature T <sub>2</sub> [°C]	Holding time H <sub>2</sub> [min]	Vacuum 1 1 <sub>1</sub> [°C] 1 <sub>2</sub> [°C]	Vacuum 2 2 <sub>1</sub> [°C] 2 <sub>2</sub> [°C]	Long-term cooling L [°C/°F]	Cooling rate t <sub>c</sub> [°C/°F/min]
P300/P500/P700	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
P310/P510/P710	403/757	6:00	90/162	830/1526	0:10	30/54	850/1562	3:00	550/830 1022/1526	830/850 1526/1562	710/1310	0
CS/CS2/CS3	Program 2											

### Optional

Corrective firing with IPS e.max CAD Crystall./ Shades, Stains, Glaze or Add-On