



Celtra®, Cercon®, Celtra® Ceram, Universal Stain and Glaze

# All-ceramic solutions for every need

Brochure for the dental laboratory

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THE DENTAL  
SOLUTIONS  
COMPANY™

 **Dentsply  
Sirona**

# Content

## [Celtra Ceram](#)

---

High esthetic veneering 4

## [Celtra Press](#)

---

Monolithic - stained and glazed 6

Cut-back technique - Enamel and glaze 7

Fully veneered 8

## [Cercon xt, Cercon ht](#)

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Monolithic - stained and glazed 10

Cut-back technique - Enamel and glaze 11

Fully veneered 12

Build-up scheme - Fully veneered restorations 14

Description of ceramic masses 15

## [Tips and Tricks](#)

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Exact shade reproduction 16



# All-ceramic solutions for every need

Our comprehensive all-ceramic concept offers solutions at the highest esthetic level, while at the same time providing easy and reliable workability. Whether you want quick results or are geared up for partial veneering or full customization – we have the right material solution for you.

With our framework materials, and the perfectly matched Celtra Ceram veneering material as well as the Universal Stain and Glaze set, you can achieve:

- › Excellent esthetics
- › Maximum shade fidelity
- › Reliable, reproducible results
- › Easy processing

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## FRAMEWORK MATERIALS

### Celtra Press

Zirconia-reinforced lithium silicate (ZLS)

### Celtra Duo

Zirconia-reinforced lithium silicate (ZLS)

### Cercon xt

Extra translucent zirconia

### Cercon ht

High translucent zirconia

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## CUSTOMIZATION OPTIONS

→ Celtra Ceram (All-ceramic veneering porcelain)

→ Universal Stain and Glaze

→ Universal Stain and Glaze

→ Celtra Ceram (All-ceramic veneering porcelain)

→ Universal Stain and Glaze

→ Celtra Ceram (All-ceramic veneering porcelain)

→ Universal Stain and Glaze

# High esthetic veneering

## Celtra Ceram

Celtra Ceram introduces the versatility of a single veneering system designed exclusively for all-ceramic substructures including lithium silicates and zirconia oxides.

CTE 25–500°C:  $9.0 \times 10^{-6} \text{K}^{-1}$

### + Versatile concept

Smart veneering concept suitable for both aesthetic and production environments utilizing core masses and multiple effect powders for all-ceramic restorations

### + Premium esthetics

Smart collection of core masses for high efficiency and yet a multitude of highly esthetic effect porcelains satisfy the most creative minds in your dental laboratory

### + Consistent performance

Shade accurate, stable and forgiveness achieved using a proprietary mineral ore source with seamless blending to all ceramic substructures

## Universal Stain and Glaze

The Universal Stain and Glaze is specially formulated with maximum compatibility to satisfy all of your needs in a single finishing system.

(CTE):  $7.5 \pm 0.5 \times 10^{-6} \text{K}^{-1}$  (25–500 °C)

### + Ultimate efficiency

Universal material compatibility eliminates multiple finishing systems in your lab

### + Easy to use

Preferred paste format simplifies training and makes it easier to achieve a consistent outcome

### + Versatile performance

Able to be used internally and externally to achieve highly individualized effects





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## CELTRA CERAM

### Indications

Celtra Ceram is suitable for veneering all-ceramic frameworks, including:

- + Celtra Press Zirconia-reinforced Lithium Silicate (ZLS) frameworks:  $9.7 \times 10^{-6} \text{K}^{-1}$  (CTE 25-500°C)
- + Lithium disilicate frameworks:  $10.0 - 10.5 \times 10^{-6} \text{K}^{-1}$  (25-500°C)
- + Cercon ht zirconia framework:  $10.5 \times 10^{-6} \text{K}^{-1}$  (25-500°C)
- + Cercon xt zirconia framework:  $10.1 \times 10^{-6} \text{K}^{-1}$  (25-500°C)
- + Zirconia frameworks:  $10.1 - 11.0 \times 10^{-6} \text{K}^{-1}$  (25-500°C)

### Features

46 Dentin Shades:

- + 4 Bleach BL1-BL4
- + 16 A1-D4 VITA\* classical
- + 26 Shades Series (keyed to VITA\* 3D-Master)

\*VITA, VITA classical A1-D4, and 3D-MASTER are registered trademarks of VITA Zahnfabrik H. Rauter GmbH & Co. KG.

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## UNIVERSAL STAIN AND GLAZE

### Indications

Dentsply Sirona Universal Stain and Glaze are indicated for finishing the following restorations:

- + Celtra Press zirconia reinforced lithium silicate (ZLS)
- + Celtra Duo zirconia reinforced lithium silicate (ZLS)
- + Cercon ht zirconia
- + Cercon xt zirconia
- + Kiss porcelain (except Duceragold)
- + Ceramco porcelain

# Monolithic – Celtra Press\* MT A2

Universal Stain and Glaze



01

### Baseline situation

Due to the exceptional light-optical properties of Celtra Press, you can achieve excellent esthetics quality already in a monolithic restoration.



02

**Customization** can be done quickly and safely: Customize the mesial and distal line angles areas with Incisal Stain i1. Refine the mamelon structures with Cream and add Violet characterizations between the mamelons.



03

After stain firing, just apply High Flu overglaze across the monolithic restoration. The final shade check confirms the quick and easy shade reproduction with great esthetics.



## Celtra Press

stained and glazed

# Cut-back technique – Celtra Press LT A2

Celtra Ceram, Universal Stain and Glaze



01

Cercon Press framework with established mamelon structures.



02

Build the labial and palatal enamel areas with a single enamel (E1).



03

E1 has been applied.



04

After ceramic firing.



05

After finishing the shape and surface texture.



06

Finishing in this case requires no stains but simply a glaze.



07

The result: The desired shade has been matched very closely, and the restoration looks "live" with only one enamel and glaze.

## Celtra Press Enamel and glaze



# Fully veneered – Celtra Press LT A2

Celtra Ceram, Universal Stain and Glaze



01

The framework has been designed to reflect the reduced anatomical shape of the restoration.



02

Build up the upper part of the crown with Celtra Ceram Dentin A2 and create delicate mamelon structures. Highlight the incisal edge with Enamel Opal EO4. Emphasize the mamelons and incisal ridges with EO4 as well.



03

Then complete the build-up of the restoration with Enamel E1.



04

After the ceramic firing, finish the shape and prepare the restoration for the second layer.



05

On the cervical aspect, use a mixture of Enamel Effect EE3 and Enamel Opal EO4. Support the mesial and distal ridges with Celtra Ceram Enamel Effect EE5.



06

In the central incisal labial area, add a thin layer of Enamel Opal EO1. Finalize the incisal edges with Enamel Effect EE6.



07

After the ceramic firing, finalize the shape and create the desired surface texture.



08

After firing.



09

Glaze the entire surface of the Celtra Press restoration the High Flu glaze and add Crème stain to design delicate individual features on the incisal aspect.



10

The result: A perfect shade match. The opalescence of the incisal edge supports the natural appearance of the restoration.



Premium esthetics  
with Celtra Press

Fully veneered



The material was additionally stained for better visibility.

# Monolithic – Cercon xt A2

## Universal Stain and Glaze



01

### Baseline situation

The extra-translucent Cercon xt zirconia material provides a high level of esthetics with monolithic restorations. All that is required is final customization with universal stains and glaze.



02

Customize the crown body with a bit of Pink, then highlight the enamel ridges with Incisal Stain i1 and support the incisal area with its mamelon structures with a bit of Crème.



03

After stain firing, add High-Flu Universal Overglaze to the monolithic restoration. The final shade check confirms the quick and easy shade reproduction with great esthetics.



Cercon xt  
stained and glazed



# Cut-back technique - Cercon ht A2

Celtra Ceram, Universal Stain and Glaze



01

Cercon ht framework with established mamelon structures.



02

Build the labial and palatal enamel areas with a single enamel (E1).



03

E1 has been applied.



04

Finishing the shape and surface texture after ceramic firing.



05

Finishing with stain and glaze in a single step. Paint a fine line of Crème on the incisal edges. Then paint on Incisal Stain i1 along the posterior incisal edge.



06

The result: The desired shade has been matched, and the restoration looks "live" with just one enamel material and some stain.

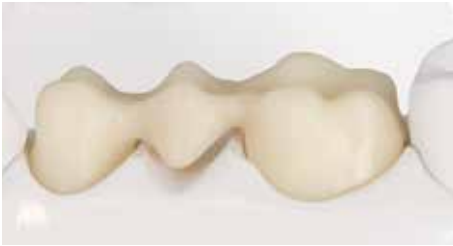
Cercon ht  
Enamel and glaze



The material was additionally stained for better visibility.

# Fully veneered - Cercon ht A2

Celtra Ceram, Universal Stain and Glaze



01

As a high translucent zirconia material, Cercon ht provides an excellent foundation for bridges in the posterior region.



02

Build up the buccal, labial, and occlusal dentin aspects with Dentin DA2.



03

Emphasize the ridges of the occlusal surfaces with Celtra Ceram Enamel E4.



04

Then complete the build-up of the restoration with Enamel E1.



In a second ceramic firing, finish the restoration using Dentin A2 and Enamel E1.



05

Customization with stains was deliberately omitted in this case. The Cercon ht restoration is finally glazed with Universal Overglaze High-Flu.



06

The result: a restoration that matches the desired target shade perfectly.

Premium esthetics,  
safe and reliable with  
Cercon ht

Fully veneered



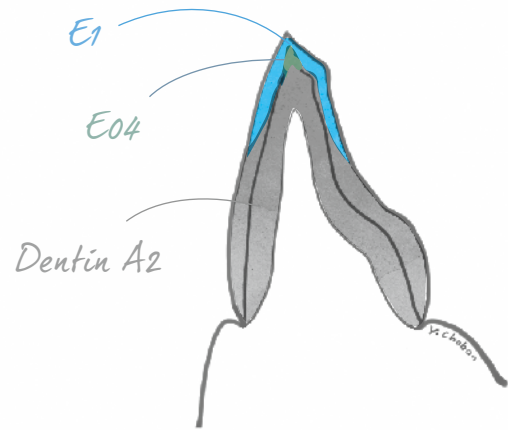
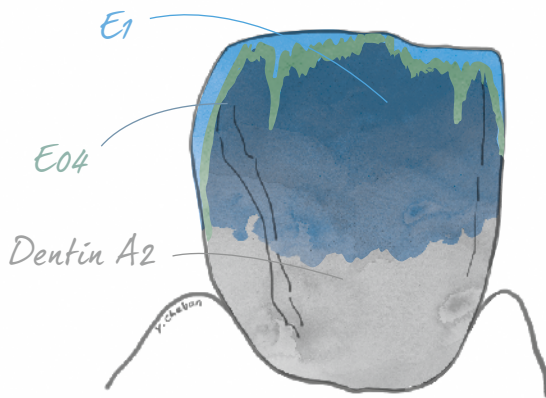
The material was additionally stained for better visibility.

# Build-up scheme

Fully veneered restorations

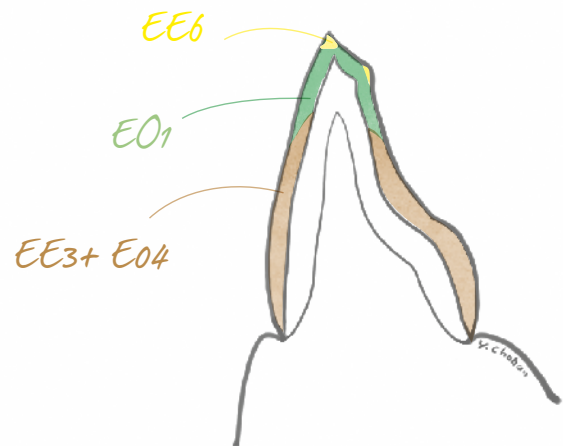
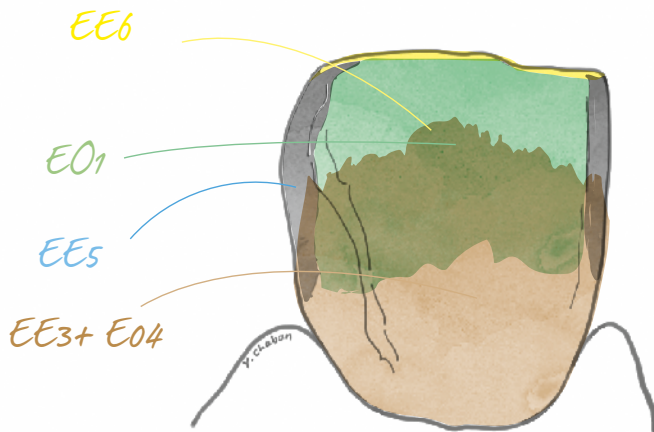
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## FIRST CERAMIC FIRING



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## SECOND CERAMIC FIRING



All laboratory work and build-up schemes in this brochure have been created by Yamen Chaban, dental technician and trainer from Dentsply Sirona



# Description of ceramic masses

## Enamel Opal (EO)

EO1 - Extra Light, EO2 - Light, EO3 - Medium

Opalescent enamel inspired by nature to expand design options in the incisal area without affecting core color. Enamel Opal increases vitality without being too transparent (no greying effect) yet maintains a transparent visual character. A true multifunctional material to quickly achieve high esthetic results.

## Enamel Opal Transparent (EO4)

A strong opalescent, almost transparent multi-functional powder with broad application within the system. EO4 can be used in pure form and/or mixed with all other powders to increase opalescence.

## Enamel Opal HT (EO5)

A translucent enamel to enhance accents of yellow and orange opalescent effects. Especially formulated for highly translucent core materials, yet versatile to encourage creativity.

## Enamel Opal LT (EO6)

A opalescent powder with higher value and higher opacity than EO5 intended for use with lighter and bleach shade substructures, yet similar to EO5 in versatility to promote creativity.

## Enamel Effect (EE)

Enamel Effects of varying hues that can be applied in incisal areas to enhance color depth and introduce natural features of adjacent dentition.

## Enamel Effect Sunrise (EE1) / Enamel Effect Sunset (EE3)

Opalescent effect powder can be used for yellow/orange (Sunrise), as well as orange/reddish (Sunset) accents in the enamel areas. They are well suited for increasing the chroma level at the 2<sup>nd</sup> or 3<sup>rd</sup> dentin firings. Sunset is mainly used for A-shades, whereas Sunrise is used mainly for B-shades. Both powders can be diluted using EO4 Enamel Opal Transparent to reduce the intensity of yellow and reddish colors.

## Enamel Effect Violet (EE2) / Enamel Effect Sky (EE5)

Opalescent effect powders for discreet accent rod formations and for creating strong illusions of depth and translucency in incisal areas. They can be diluted using EO4 Enamel Opal Transparent to reduce the intensity of the violet or sky.

## Enamel Effect Fog (EE4)

Opalescent effect powder for grayish incisal areas can be diluted by using EO4 Enamel Opal Transparent to reduce the gray intensity.

## Enamel Effect Ivory (EE6)

Whitish opalescent effect powder for palatal/lingual ridges in the anterior area and to enhance occlusal cusps in the posterior region as well - can be diluted by using EO4 Enamel Opal Transparent to reduce the intensity of milky-ivory color.

## Power Dentin (PD)

Power Dentins are highly chromatic, fluorescent and intensive powders for individual chromatic adjustments. The Power Dentins can be used in all areas to increase the chroma in the cervical, palatal or occlusal fossa areas, and are especially useful for lithium disilicate frameworks lacking chroma. The powders can be used pure or in varying mixtures depending upon desired effect and intensity.

## Opaceous Dentin (OD)

Opaceous Dentins are similar in chroma and hue to Dentins, but with a 25% (average) increase in opacity. Opaceous Dentins can be used to control light and translucent effects in the body of the restoration. They are widely used for masking core substructures in zirconia for more life-like restorations. The powders can be used pure or in varying mixtures depending upon desired effect and intensity.

## Dentin Effect (DE)

Dentin Effects are intensive powders in a range of cool and warm hues which can be used as rod formations, accents and chromatic or value adjustments plus varied effects. EO4 Enamel Opal Transparent can be used to dilute and reduce the intensity.

## Dentin Gingiva (DG)

Gingiva powders in multiple shades mimicking soft tissue areas. Dentin Gingiva has same translucency as dentin and is fired during dentin applications at 770 °C, which is especially helpful in veneering implant-supported frameworks.

## High Flu Universal Overglaze

The High Flu Universal Overglaze is a glaze mass used for monolithic zirconia restorations to achieve a higher fluorescence, regulating brightness.

## Universal Overglaze

The Universal Overglaze is suitable for glazing the ceramic materials.

## Add-On Correction (C) & Add-On Gingiva (G)

Add-On Correction porcelain can be used for making final adjustments. Similarly, Add-On Gingiva can be used for final corrections in gingival areas. Both are low fusing ceramics and can be used either with or after glaze firing.



The selection of the most suitable pellets is supported by the Celtra app.

For more information and firing recommendations please consult the Directions for Use of the respective products.

[www.dentsplysirona.com](http://www.dentsplysirona.com)

<sup>1</sup> The A-D designations correspond to Vita® Classical Shade Guide which is meant to be a guide not a match. Vita is a registered trademark of Vita Zahnfabrik H. Rauter GmbH & Co.

# Tips and Tricks

## Exact shade reproduction

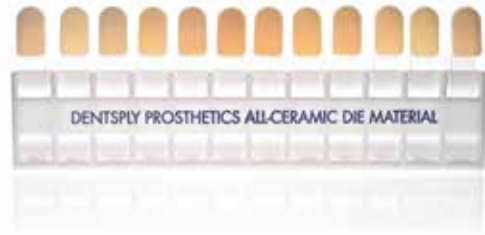
The Dentsply Sirona Prosthetics Die Material was designed to mimic the actual shade of the prepared tooth. When this material is placed inside the pressed Celtra crown, it will assist in accurate shade reproductions.

### What to do with discolored dies?

Use Opaque Dentins at the prescribed mixing ratios to cover a grayish tint on heavily discolored dies.

### What if the desired framework shade is not available?

Use a reduced amount of opaque dentins to increase the chroma or to darken the ingots (example: for shade A4 and pellet A3, apply a thin layer over the entire surface). If space is limited, complete with Universal Stains before the build-up.



**Note:** Use resin dies for shade control and for staining.

A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
F1	F12	F10	F9	F7	F1	F11	F10	F8	F3	F4	F5	F6	F2	F3	F3





## Celtra Press

3-unit bridge, fully veneered

## Celtra Press

3-unit bridge, cut-back

## Cercon ht

3-unit bridge, fully veneered



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22315/REV 2020-01

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