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

All-ceramic solutions for every need

Brochure for the dental laboratory
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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 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
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 x 10^{-6}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

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**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 25–400°C: 8.0±0.5 x 10^{-6}K^{-1}

+ **Ultimate efficiency**  
Universal material compatibility eliminates multiple finishing systems in your lab

+ **Easy to use**  
Preferred gel 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
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.

04 Result
*With Celtra Duo, the possibilities available are identical with the options shown here.
Cercon Press framework with established mamelon structures.

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

E1 has been applied.

After ceramic firing.

After finishing the shape and surface texture.

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

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

04
Result
Cercon ht framework with established mamelon structures.

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

E1 has been applied.

Finishing the shape and surface texture after ceramic firing.

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

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

Emphasize the ridges of the occlusal surfaces with Celtra Ceram Enamel E4. In a second ceramic firing, finish the restoration using Dentin A2 and Enamel E1.

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

The result: a restoration that matches the desired target share perfectly.
Premium esthetics, safe and reliable with Cercon ht

Fully veneered
Build-up scheme
Fully veneered restorations

FIRST CERAMIC FIRING

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 EOS intended for use with lighter and bleached shade substructures, yet similar to EOS 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 2nd or 3rd 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.

### 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.

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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)
Tips and Tricks

Exact reproduction of the preparation shade

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 opaceous dentins to increase the chroma or to darken the pellet (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.

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<th>A3</th>
<th>A3.5</th>
<th>A4</th>
<th>B1</th>
<th>B2</th>
<th>B3</th>
<th>B4</th>
<th>C1</th>
<th>C2</th>
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Cercon ht
3-unit bridge, fully veneered

Celtra Press
3-unit bridge, fully veneered

Celtra Press
3-unit bridge, cut-back