



Strong.  
Beautiful.  
Versatile.

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CEREC Cercon 4D™ Abutment Block  
Multidimensional Zirconia

[dentsplysirona.com/cerec-cercon4d](https://dentsplysirona.com/cerec-cercon4d)



CEREC Cercon 4D™ Multidimensional Zirconia Abutment Block

# A new dimension in strength and beauty.

Dentsply Sirona introduced the first dental zirconia into the market more than 20 years ago. Since then, dentists have relied on our portfolio of monochromatic and multilayer zirconia for high strength and esthetic restorations.

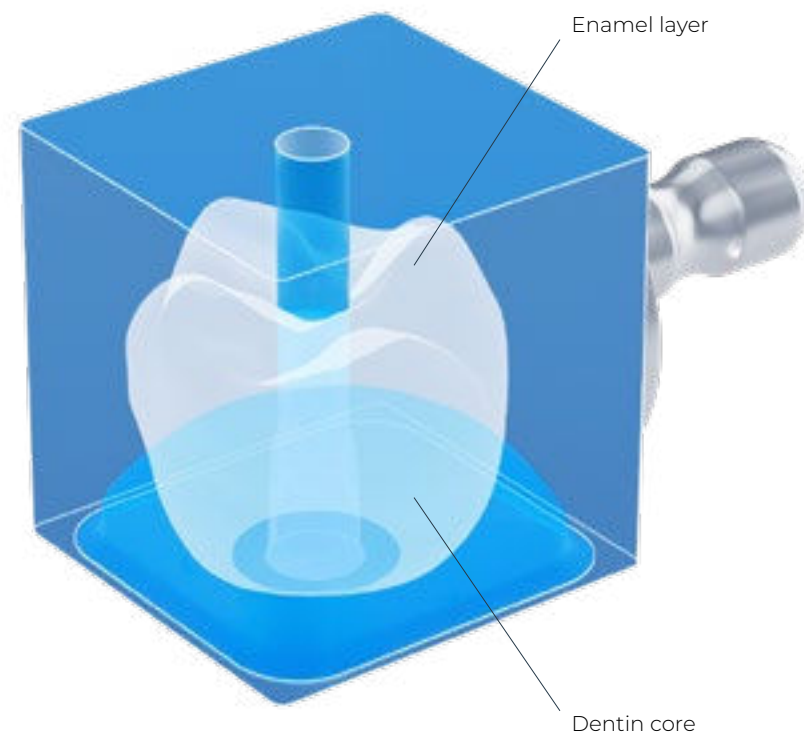
Yet many have also sought an abutment block that delivers beauty with the proven strength of zirconia. Today, we answer this call with our most innovative CAD/CAM zirconia abutment block: The CEREC Cercon 4D™ Abutment Block.

## A closer look at the 4D difference

Traditional multi-layer zirconia blocks are built from several two-dimensional layers. Our highly esthetic CAD/CAM zirconia, however, is constructed to mimic the unique balance of dentin and enamel contours in a three-dimensional way, inspired by the natural tooth.

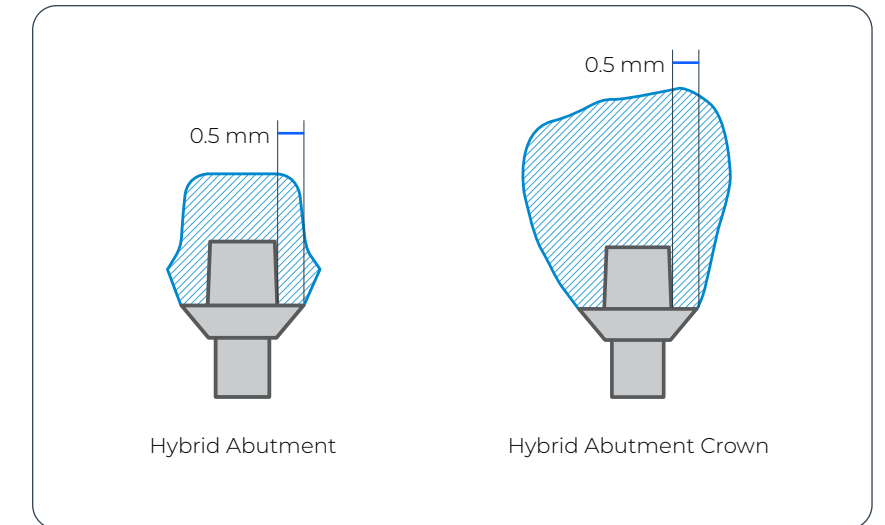
With this approach, CEREC Cercon 4D™ abutment block masks the TiBase and combines high strength with esthetics.

The fourth dimension comes to light when the structure emerges from the efficient milling process. This makes the CEREC Cercon 4D™ abutment block a true “4D” experience.



## High strength

Durable zirconia material delivers strength greater than 1,100 MPa.<sup>1</sup> This enables a minimum wall thickness down to 0.5 mm for increased flexibility when space is limited, especially in two-piece abutment structures.



## Natural beauty

Three-dimensional natural shading and translucency supports a very high level of esthetics for both posterior and anterior restorations. In addition, all available shades are optimized for polishing.



## Efficient processing

CEREC Cercon 4D™ Multidimensional Zirconia allows for efficient workflows when combined with CEREC Primemill® and CEREC SpeedFire® technologies.



With CEREC Primemill®, excellent CEREC Cercon 4D™ abutments/abutment crowns can be milled in 15 minutes (full contoured crown).<sup>2</sup>

With CEREC SpeedFire®, a zirconia abutment/abutment crown can be sintered in about 36 minutes.<sup>2</sup>

1. 3-point flexural strength test according to ISO 6872:2024, N=30. Internal testing at Dentsply Sirona, For more information, contact Consumables-Data-Requests@dentsplysirona.com.  
2. Internal validation report, data on file available at contact@dentsplysirona.com

# Performance for both indications.

Put 2-in-1 performance to work for your hybrid abutments or directly screw-retained hybrid abutment crowns. One block does it all.



The perfect match for your chairside implant restorations.



## Scan + Design

Hybrid Abutment Crown



CEREC Primescan® and CEREC® Software offer speed, simplicity, and accuracy in high-resolution digital impressions and restorative designs for excellent clinical outcomes.

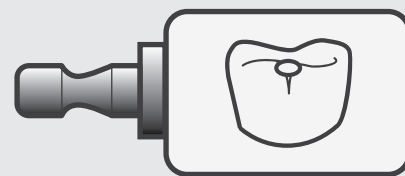
**Note:** For CEREC Cercon 4D™ abutment block, the CEREC® Software Version 5.2.7 or higher is required.

Hybrid Abutment

## Manufacture



CEREC Primemil® delivers quality, speed, convenience, and versatility for excellent margins and surface details.



CEREC Cercon 4D™ Abutment Block



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## Finish



CEREC SpeedFire® is a small and very fast sintering and glazing furnace. Sintering of CEREC Cercon 4D™ abutment crowns takes about 36 minutes.<sup>1</sup>

## Cementation



Substrate preparation

Extraoral cementation TiBase/Ceramic Structure

Screwing in the hybrid abutment crown intraorally



Substrate preparation

Extraoral cementation TiBase/Ceramic Structure

Screwing in the hybrid abutment intraorally

**Calibra® Abutment Resin Cement** helps preventing undesirable TiBase show-through for a more natural result. When used with CEREC Cercon 4D™ Abutment Blocks, Calibra Abutment Resin Cement provides excellent bond strength for indirect restorations.

<sup>1</sup> Internal validation report, data on file available at [contact@dentsplysirona.com](mailto:contact@dentsplysirona.com)

# Strength meets simplicity in one cement.

Calibra® Abutment Resin Cement delivers strength, high opacity and simple usability whenever you use CEREC Cercon 4D™ abutment blocks across a range of restorations.

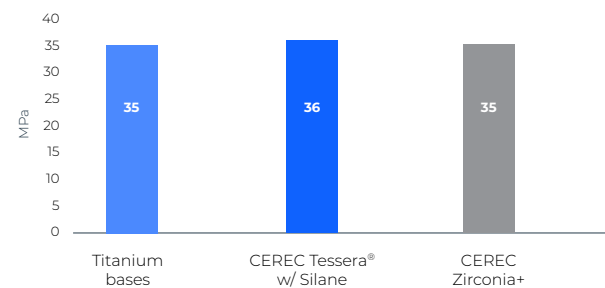
## Shear bond strength

- Excellent shear bond strength to zirconia
- Designed and tested to survive autoclaving / terminal sterilization

## Patient-pleasing esthetics

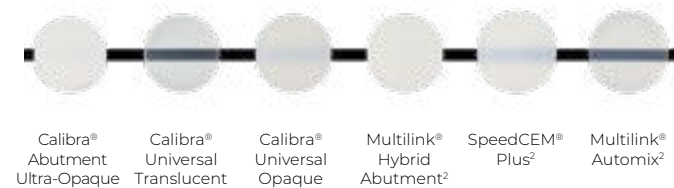
- Ultra-opaque shade blocks undesirable substrate showthrough

## Calibra® Abutment Cement Shear Bond Strength (SBS)



**Test:** Worst-case 24-h shear bond strength: Calibra® Abutment Resin Cement at the end of shelf-life was used and all specimens (n=6 per substrate) were exposed to three sterilization cycles prior to the bond strength measurement. Each cycle included three steps: 1. submersing in Isopropanol, 2. washing disinfection, 3. steam sterilization.

## Shade Opaqueness



**Test:** Opaqueness of shade: Cement specimens were cured following their manufacturer's recommendation and have a thickness of 1 mm. The picture was taken in a light box under controlled illumination using a D65 light.<sup>1</sup>

## Simple application

- Easy and convenient auto-mix syringe delivery
- Efficient, comprehensive cleanup
- Smooth application in all restorations
- Fewer steps compared to Multilink® Hybrid Abutment cement.<sup>1,2</sup>



## Extraoral Cementation of Abutment Restoration to TiBase

### 1. Restoration Preparation

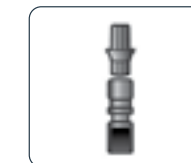


- 1.1** Prepare the abutment or restoration according to the manufacturer's instructions for use.
- Note: Ensure the ceramic structure can be fully inserted onto the TiBase. The shoulder of the abutment must contact the TiBase flange without perceptible gap.*



- 1.2** Sandblast the intaglio surface with 50 µm alumina according to manufacturer's instructions.
- Clean the restoration with ultrasonic cleaner, steam cleaner or with alcohol.
- Note: Do not sandblast the screw channel.*

### 2. TiBase Preparation



- 2.1** Attach the TiBase to the implant analogue or polishing tool using screw.
- Cover the hex head of the abutment screw and fill the screw channel with easily removable material (e.g. soft wax, impression material, cotton or plumber's tape).



- 2.2** Sandblast only the surface of the TiBase intended for cementation (50 µm aluminum oxide; 2.0 bar).
- Note: Do not sandblast the polished tissue surface of the flange.*

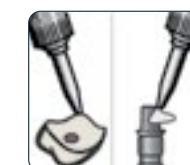


- 2.3** Clean the TiBase with alcohol, ultrasonic, or steam. Dry with clean, oil-free air.

### 3. Cementation



- 3.1** Dispense and discard a small amount of material from the dual-barreled syringe. Attach mixing tip and gently extrude product.
- Note: The ultra opaque shade is optimized for blocking of metal show-through. Material is designed to be self-cure only. For extraoral cementation.*



- 3.2** Apply a uniform layer of the cement to the bonding surfaces of the TiBase and the restoration. Prevent the cement from entering the restoration screw channel.
- Seat restoration onto TiBase within 2 minute working time from start of mix.
- Note: Cover the hex head of the abutment screw and fill the screw channel with easily removable material (e.g. soft wax).*



- 3.3** Stabilize the restoration with gradual pressure. Remove excess cement during "gelled" state (3 minutes from start of mix) by wiping with a soft tissue, cotton, or similar material. Ensure there's no cement excess in the screw channel.



- 3.4** Ensure margin between TiBase and restoration is closed and sealed. Protect assembly from contamination and allow cement to self-cure without movement until the final set of cement (6 minutes from start of mix).

Complete excess cement removal using an instrument such as a rubber tip, a scaler, or an explorer.

Protect assembly from contamination and movement until the final set of the cement (see complete Instructions for Use).

Apply water-soluble air barrier to the cement margin.

*Note: Cement within the restoration has not yet set. Do not move, torque, or disturb the restoration during cleanup.*

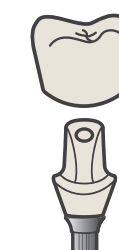
### 4. Final Restoration



- 4.1** Rinse air barrier under running water. Remove wax or other sealing material and residual cement from the screw channel. Remove any cement at the margin. Finish and polish the margin using rubber rotary tools.

*Note: Clean, disinfect and sterilize the final restoration before delivery.*

Calibra® Universal+ Versatile Resin Cement optimizes performance with simplified clean up and shade stability for hybrid abutment cases with intraoral cementation of a full contour crown.



**Intraoral** cementation of full contour crown to TiBase/ceramic structure



Scan me to get to the technical guide for extraoral cementation of your abutment restoration to the TiBase.

1. Use of adhesive not needed.  
2. Not a registered trademark of Dentsply Sirona, Inc.

# Ordering Information

## CEREC Cercon 4D™ Abutment Blocks

Shades	SKU
S A1 3pcs	5365460041
S A2 3pcs	5365460042
S A3 3pcs	5365460043
S A3.5 3pcs	5365460044
S A4 3pcs	5365460045
L A1 3pcs	5365460061
L A2 3pcs	5365460062
L A3 3pcs	5365460063
L A3.5 3pcs	5365460064
L A4 3pcs	5365460065

## Calibra® Abutment Resin Cement

Ultra-Opaque	607700
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## Calibra® Universal+ Versatile Resin Cement

Shades	SKU
Light	607402NA
Medium	607403NA
Translucent	607405NA
Opaque	607406NA
Bleach	607407NA
Dual Cure Automix Mixing Tips Refill (50)	607086

## Glaze Accessories

	SKU
Dentsply Sirona Universal Spray Glaze Fluo (fluorescent)	5368273100
Dentsply Sirona Universal Spray Glaze	5368273101
Dentsply Sirona Stain and Glaze Kit	600700
Ceramic Brush Pinelo No. 2	5369001700

## Firing Accessories

	SKU
Firing Tray	536590121
DS Investment Pins (4 posterior + 2 anterior pins)	5365490111
Glazing Support Single Unit +A	6611870
CEREC SpeedPaste	6580067

## CEREC Primemill Accessories

	SKU
Possible Processing Mode; Fine, Extra Fine Milling	
Bur 2.5 ZrO2 CS	67 13 940
Bur 1.0 CS	67 13 932
Bur 0.5 CS	67 13 924

## CEREC MC X Accessories

	SKU
Possible Processing Mode; Fine	
Shaper 25 RZ	64 33 440
Shaper 25	62 99 395
Finisher 10	62 99 387

Motor Set	Left	Right	Combination
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Set 1	Shaper 25	Finisher 10	Dry Milling
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For more information, contact your Dentsply Sirona representative or visit [www.dentsplysirona.com](http://www.dentsplysirona.com)

