

ceraMotion®
One Touch



Instructions for use

The aesthetic finish for
monolithic all-ceramic restorations.

Dear Customer,

By choosing Dentaurum products, you have opted for carefully coordinated quality products for the production of aesthetic ceramics.

To produce good results with ceramics, it is essential to closely follow the instructions for use for zirconia and lithium disilicate.

In this brochure you will find many practical tips on how to avoid mistakes when processing our products as well as information on possible causes for errors.

Should you have any further questions, please do not hesitate to contact us for advice.

In case of questions or ideas, please contact your local representative.

You can find information and instructions for the use of the Dentaurum ceramics systems at www.dentaurum.com.



Easy. Fast. Aesthetic.

ceraMotion® One Touch are 2D and 3D pastes that have been specially developed for the finish and characterization of all-ceramic monolithic restorations made of lithium disilicate and zirconia.



- Fast and easy handling thanks to ready-mixed ceramic pastes.
- Set specially assorted for the easy production of aesthetic, fully anatomical restorations.
- Maximum aesthetics thanks to color-coordinated pastes with 3D effect.
- Small changes in shape and the adding of contact points are possible.

What is ceraMotion® One Touch?

The ceraMotion® One Touch pastes are manufactured using a special high-tech process.

The particle size of the pastes have been adapted to suit the requirements for the staining technique (2D) and to offer the possibility of creating an individual morphology in the incisal area and in the occlusal surface area (3D).

The pastes' new consistency allows a homogenous wetting of all-ceramic object surfaces. The thixotropic effect produces perfect surface integrity and enables minimal layering.

All of the ceraMotion® One Touch pastes are translucent, thereby retaining the light dynamic effect of the framework material. They give the fully anatomical restorations a natural fluorescence.



Technical data.



Classification

ceraMotion® One Touch pastes are dental ceramics Type I Class 1 (according to DIN EN ISO 6872) for the finishing of frameworks made of zirconia and lithium disilicate.

Indications

Staining technique, cut-back technique, characterization and glazing of ceramic materials:

- Zirconia (fully anatomical, partial and full veneering with ceraMotion® Zr zirconia ceramic)
- Lithium disilicate (fully anatomical, partial and full veneering with ceraMotion® Zr zirconia ceramic)

Contraindications

- ceraMotion® One Touch is contraindicated for all applications that are not listed under the heading "Indications".
- ceraMotion® One Touch may not be used if there is a known intolerance to any of the ingredients.

Physical data

	Test standard	Measurements	Values
Coefficient of thermal expansion	ISO 6872	CTE ($25^{\circ}\text{C}/77^{\circ}\text{F} - T_g$) [10^{-6} K^{-1}]	2D pastes = 8.6 3D pastes = 9.1 Paste Glaze = 8.9
Flexural strength (3 point flex test)	ISO 6872	> 50 MPa	> 115 MPa
Chemical solubility	ISO 6872	< 100 µg/cm²	≈ 30 µg/cm²
Transformation temperature (Tg)	ISO 6872	–	≈ 480 °C – 490 °C (896 °F - 914 °F)

ceraMotion® One Touch products.

The ceraMotion® One Touch set contains 16 single masses as well as special liquids and accessories. At the heart of the set are color-coordinated 2D and 3D masses in paste form which were specially developed for fully anatomical restorations and for restorations with minimum cut-back.

They are compatible with zirconia (e.g. Nacera®* Pearl Shaded or Nacera®* Pearl Multi-Shade) or lithium disilicate. All parts of the set are also available individually.



* Nacera® is a registered trademark of Doceram Medical GmbH, Germany.

The ceraMotion® One Touch Set (REF 250-800-70) contains all of the individual components.

ceraMotion®
One Touch

Description	Contents	REF	Description	Contents	REF															
2D PASTES																				
ceraMotion® Paste 2D body A	3 g	250-306-03	2D Brush	1 piece	260-905-20															
ceraMotion® Paste 2D body B	3 g	250-307-03	3D Brush	1 piece	260-906-20															
ceraMotion® Paste 2D body C	3 g	250-308-03	BRUSHES																	
ceraMotion® Paste 2D body D	3 g	250-309-03	LIQUIDS																	
ceraMotion® Paste 2D white	3 g	250-310-03	Diluting Liquid	10 ml	254-012-01	GLAZE														
ceraMotion® Paste 2D grey	3 g	250-311-03	Refreshing Liquid	10 ml	254-014-01	ceraMotion® Zr Paste Glaze														
ceraMotion® Paste 2D honey	3 g	250-312-03	3 g						250-271-03											
ceraMotion® Paste 2D blue	3 g	250-313-03																		
ceraMotion® Paste 2D violet	3 g	250-314-03																		
3D PASTES																				
ceraMotion® Paste 3D I2	3 g	250-300-03																		
ceraMotion® Paste 3D lumin	3 g	250-301-03																		
ceraMotion® Paste 3D neutral	3 g	250-302-03																		
ceraMotion® Paste 3D opal blue	3 g	250-303-03																		
ceraMotion® Paste 3D opal grey	3 g	250-304-03																		
ceraMotion® Paste 3D opal honey	3 g	250-305-03																		



Advantages of the ceraMotion® One Touch pastes.

ceraMotion® 2D pastes

The small particle size in combination with the translucency of the masses helps optimize the color of the tooth, the brightness value and the in-depth effect of all-ceramic restorations.

- The translucency of the 2D pastes maintains the light dynamics.
- The fluorescence of the pastes was adapted to lend a natural appearance also to all-ceramic restorations.



ceraMotion® 3D pastes

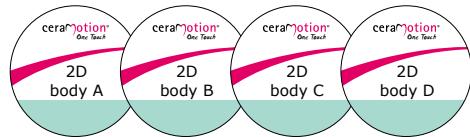
- By joining slightly larger ceramic particles with a thixotropic paste, it is possible to shape the incisal area and the occlusal surface area and to add contact points precisely.
- The 3D pastes have a firing stability which guarantees that the desired morphology is maintained.
- The translucency and the opalescence of the ready-made 3D incisal masses create an in-depth effect which appears authentic.
- The pastes' fluorescence was adapted to the fluorescence of natural teeth.



ceraMotion® One Touch 2D pastes.

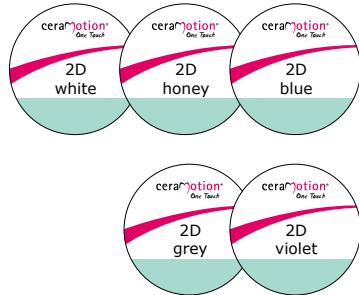
ceraMotion® One Touch 2D paste body A-D

Finishing glaze pastes to achieve required Vita color A-D.
It is possible to work with the 3D pastes without intermediate firing.



ceraMotion® 2D paste white, honey, blue, grey, violet

Finishing pastes for individual coloring.
They can be applied to completely or partially cover the crown surface.
These 2D pastes can also be used to intensify the 3D pastes
(To this purpose, please use the Refreshing Liquid if necessary).
2D pastes can be used to determine the degree of brightness individually:
white (lighter), grey (darker).



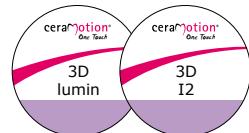
ceraMotion® One Touch 3D pastes.

ceraMotion® 3D paste I2 + lumin

Incisal pastes for minimum layering with 3D and in-depth effect.

The 3D paste I2 has a medium brightness value.

The 3D paste lumin has a high brightness value.



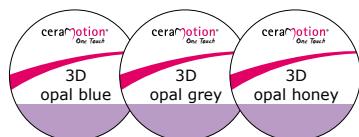
ceraMotion® 3D paste neutral

A neutral 3D paste with increased transparency to modify the 3D incisal pastes.



ceraMotion® 3D paste opal blue, opal grey, opal honey

Color-coordinated 3D pastes with an opalescent effect for individualization.



Bassam Haddad

Created by CDT Bassam Haddad, Montreal, Canada

ceraMotion® One Touch liquids.

ceraMotion® One Touch Diluting Liquid & Refreshing Liquid

The Diluting Liquid and the Refreshing Liquid are compatible with all ceraMotion® One Touch pastes. However their behavior during processing varies.

ceraMotion® One Touch Diluting Liquid

The Diluting Liquid can be used to reduce the paste's viscosity (Zr Paste Glaze, 2D and 3D). The 2D pastes can then be applied in a thinner layer giving a glazed effect.

The Diluting Liquid is preferably used for 2D pastes and for applying very thin layers of Zr Paste Glaze.

- ! Please stir the pastes using a glass instrument before using the liquids.
- ! Using too much Diluting Liquid may impair the stability of the pastes following application.
- ! Please mix the diluting liquid on the mixing plate only and not in the pot.

Diluting Liquid.



ceraMotion® Zr Paste Glaze

Ready-to-use fluorescent glaze mass.

This reliably wets the material surface so it can be applied exactly where needed.

Only one glaze firing is required (homogeneous glaze level already after the first glaze firing).



Zr Paste Glaze.

ceraMotion® One Touch Refreshing Liquid

The Refreshing Liquid is the preferable solution for the 3D pastes since it does not affect the pastes' modeling qualities.

If the 3D paste is too dry, add Refreshing Liquid.

The Refreshing Liquid can be used to determine the viscosity of the 3D pastes without changing their thixotropic behavior.

! Please make sure you close the bottle of Refreshing Liquid after use.



Refreshing Liquid.

Framework preparation.

Lithium disilicate

Blast the lithium disilicate framework with Al_2O_3 , 50 µm at 1 – 2 bar (blasting abrasive REF 128-017-00). Then steam-clean the framework carefully. The framework is now ready for the application of the ceraMotion® One Touch pastes.

Zirconia

Prepare the framework made of zirconia according to the manufacturer's instructions. Do not begin with the application of the ceraMotion® One Touch pastes until the surface has been steam-cleaned and is free of grease.

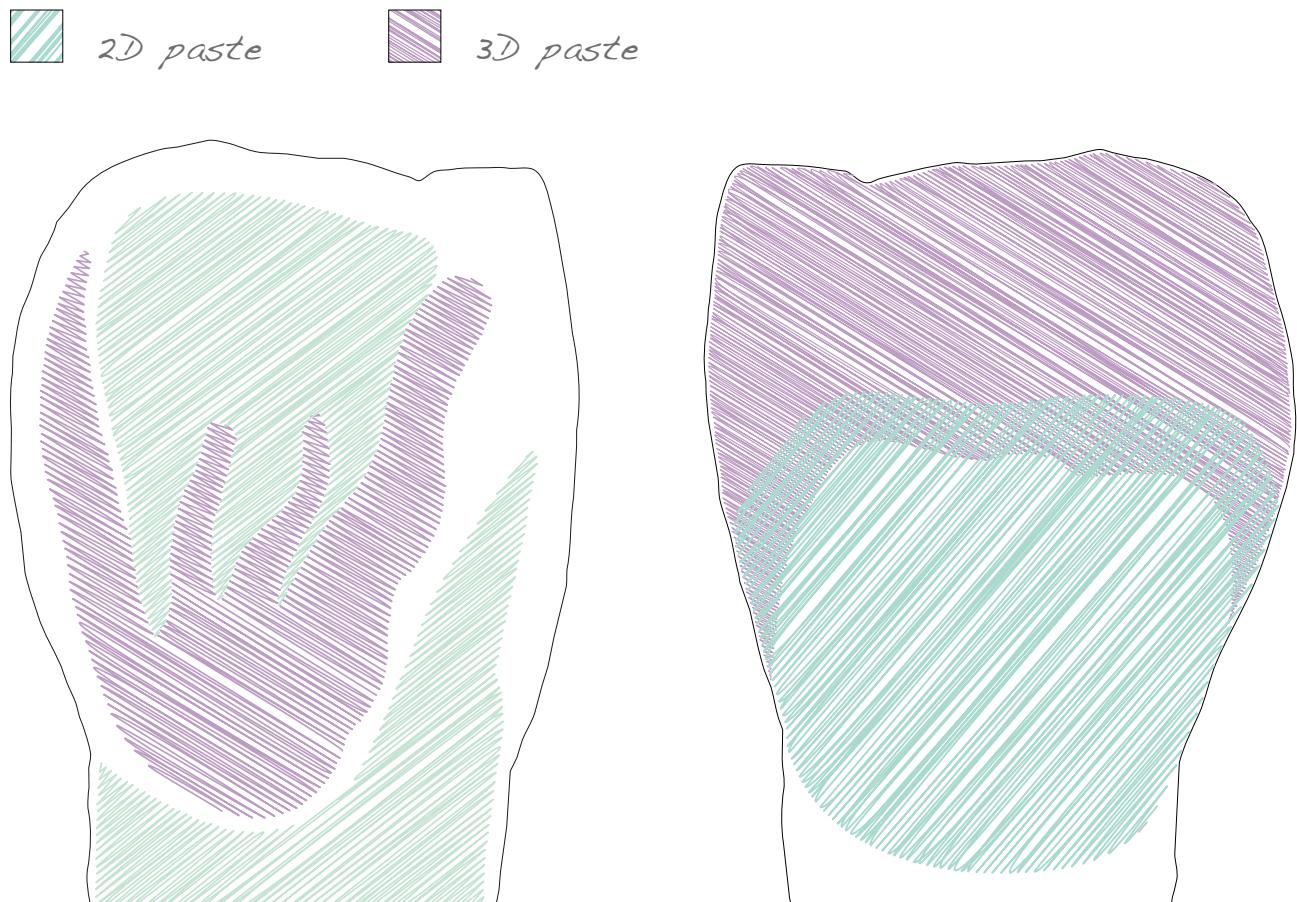


! Please take note of the manufacturer's instructions when preparing the framework.

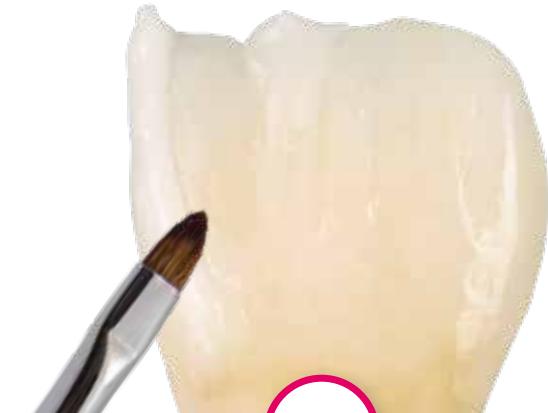
Basic scheme for the application of 2D and 3D pastes.

(Example using an anterior crown)

The 2D pastes are used mainly in the body area and the 3D pastes are applied mainly in the incisal area.
You will find some examples on the following pages. All of the 2D and 3D pastes can be used individually.



Steps from beginning to end.



1

2

3



Basic

Framework preparation

- Lithium disilicate
Blast with Al_2O_3 50 μm /1–2 bar, steam-clean (blasting abrasive, REF 128-017-00).
- Zirconia
(Prepare according to manufacturer's instructions).



Basic

Apply Zr Paste Glaze

The crown must be completely covered by a thin layer of Zr Paste Glaze.



Individual

Apply 2D and 3D paste

You can use the enclosed brush (3D Brush, REF 260-906-10) to apply the 3D pastes.

4

5

6

7

 Basic

First firing

Fire the finished restoration
at 730 °C/1346 °F-



Individual

Corrections (optional)

- 2D pastes
- 3D pastes
- Zr Paste Glaze



Individual

Second firing

Fire the finished restoration
at 720 °C/1328 °F

Finished!

Prepared framework.

1

Example using a zirconia framework
(Nacera®* Pearl Shaded A2)



Basic
Prepare
framework



Waldemar Fritzen



* Nacera® is a registered trademark of Doceram Medical GmbH, Germany.

Apply Zr Paste Glaze.

2

Put some paste onto a mixing pad and, if necessary, mix with Diluting Liquid until a homogenous, not too thick consistency is achieved.

Apply the paste in a thin layer to the entire framework.



Basic

Zr Paste Glaze (Diluting Liquid)



Waldemar Fritzen



Individualization using 2D Body Paste.

3

Mix the 2D body pastes with the Diluting Liquid until the required consistency is achieved. Apply the 2D body pastes to cover the dentine area in order to maintain the basic coloring as required (A – D).



Individual

Paste 2D
Body A, B, C,
D



Waldemar Gitzler



Individualization using 2D paste.

3

The images show possible applications. You can apply the 2D pastes individually. They can either be fired (see Firing Chart, page 26) or 3D pastes can be applied directly onto the 2D pastes.



Individual

*Paste 2D
blue, honey,
violet, white*



Individualization using 3D paste.

3

The ceraMotion® 3D pastes are applied using the 3D Brush and modeled as required.



Individual

Paste 3D
I2, lumin,
neutral



Waldemar Gitzler



Fire - finished!

4

5

Tip: ceraMotion® Stains Universal is compatible and can be used for selective effects. It can also be used to create individual 2D and 3D color tones by mixing it carefully into the pastes.

You can find the Firing Chart on page 26.



Individual

*Finished
crown
after firing*



Waldemar Gitzler



Individualization using 3D paste.

3

The ceraMotion® 3D pastes are applied using the 3D Brush and modeled as required.

Example using an anterior tooth made of zirconia (Nacera® Multi-Shade A).



Individual

Paste 3D
I2, lumin,
neutral

* Nacera® is a registered trademark of Doceram Medical GmbH, Germany.



Fire - finished!

4

5

Tip: ceraMotion® Stains Universal is compatible and can be used for selective effects. It can also be used to create individual color tones by mixing it carefully into the pastes.

You can find the Firing Chart on page 26.



Individual

*Finished
crown
after firing*



Firing Chart.

The firing temperatures indicated are guidelines. Deviations are possible for different furnaces and the values listed below may need to be altered accordingly.

We recommend you run a trial firing to find the right temperature for your furnace. This is the only way to find the right firing procedure for your furnace.

General Firing Chart

	Temperature at start (°C/°F)	Drying time (m)	Heat rate* (°C/°F per m)	Vacuum start (°C/°F)	Vacuum stop (°C/°F)	Firing temperature (°C/°F)	Hold-time** (m)
First firing cM 2D- and 3D-Paste cM Zr Paste Glaze	450 / 842	8	55 / 131	450 / 842	730 / 1346	730 / 1346	1 (without vacuum)
Second firing Correction cM 2D- and 3D-Paste cM Zr Paste Glaze	450 / 842	8	55 / 131	450 / 842	720 / 1328	720 / 1328	1 (without vacuum)

- Reducing the heat rate improves the firing quality in the case of large restorations.
- Extend the hold-time in the case of large restorations to compensate for the poor thermal conductivity of ZrO₂.

! Please take note of the manufacturer's instructions when creating the framework.

Processing tips.

- The ceraMotion® Stains Universal / colors in powder form can be used in addition. Please mix these either as usual with the ceraMotion® Stains Liquid or with the Diluting Liquid.

If you choose to use the ceraMotion® Universal Stains in powder form to characterize the restoration, you can mix this into the Zr Paste Glaze. This will give you an individual 2D paste.

Please use the Diluting Liquid if necessary.

- If you would like to produce an individually colored 3D paste, mix the Universal Stains into the paste 3D neutral. Use the Refreshing Liquid if necessary.
- The required surface structure can be achieved by modeling the paste.
- The 3D pastes are used for the cut-back technique.
- To reduce the glaze level, turn the firing temperature down to 715 °C/1319 °F.
- To increase the glaze level, turn the firing temperature up to 750 °C/1382 °F max.
- You can influence the level of glazing individually by polishing the restoration mechanically.



Courses and ceraMotion® moments.

Dentaurum and our instructors place great value on hands-on courses, during which participants have the opportunity to apply what they have just learned.

Aesthetics play an important role where ceramics are concerned. We were able to put together a team of experts who are dedicated to passing on their knowledge. There are various courses in which we demonstrate how to work with the ceraMotion® system to achieve amazing, highly aesthetic results.

Visit one of our courses with top instructors e.g.: Rainer Semsch, Haristos Girinis, Waldemar Fritzler, Bassam Haddad, Germano Rossi – all Master Dental Technicians. Come and see for yourself.

Be sure not to miss our ceraMotion® events and experience exciting ceraMotion® moments.

Come and enjoy an inspiring event in a wonderful atmosphere. Work with top-class instructors and listen to experienced ceramic professionals talk about their personal experiences with ceraMotion® using interesting examples from their daily work in the laboratory.

events@dentaurum.com | Online registration: www.dentaurum.com



The ceraMotion® ceramic system.

The ceraMotion® concept unites emotion with progress in a logical system. The products are developed and produced in our own company. The result is a ceramic product line with veneer and press ceramics.



→ More information

Your local representative
will be happy to answer any
queries you may have regarding
ceraMotion® products.



Photo: © Christian Ferran®

ceraMotion® – Developed and manufactured by:



Dentaurum

Germany | Benelux | España | France | Italia | Switzerland | Australia | Canada | USA
and in more than 130 countries worldwide.



DENTAURUM
QUALITY
WORLDWIDE
UNIQUE



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Subject to modifications

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