

A vibrant, multi-colored powder explosion or cloud fills the left and center of the page. The colors include shades of red, orange, yellow, green, blue, and purple, creating a dynamic and artistic background.

InSync® ZR
Veneering Ceramic

ZrO₂

Li-Di

Ti

**PRETTY
COOL!**

INSTRUCTION MANUAL

English

Jensen Dental

Over the past 30 years, Jensen Dental has developed from being solely a manufacturer of alloys to becoming a comprehensive supplier of dental products and services.

We are proud of our consistently high quality and our personalised customer service, which is supplemented by our technically competent support on site as well as our customer-oriented advanced training courses.

Our aim is to ensure quality and personalised contact and services in every aspect of our business.

We commit ourselves to being able to offer you efficient and cost-effective solutions for your lab and, therefore, for your own personal success.

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1 InSync ZR Veneering Ceramic

1.1 Product description and purpose

The materials manufactured and sold by Chemichl AG are dental ceramic medical products intended exclusively for dental use. The medical product group „dental ceramics“ includes powders and pastes as well as modeling and mixing liquids. The dental ceramic medical products represent „semi-finished products“ which are processed into dental restorations by the trained dental technician/dentist and then placed in the patient's oral cavity by the dentist.

1.2 Material and indication

Due to its CTE range and low firing temperature, InSync ZR is versatile for veneering zirconia, lithium disilicate, titanium and titanium alloy frameworks.

Coordinated translucency and fluorescence allow the reconstruction of natural-looking teeth on sintered zirconia, titanium/ titanium alloys and lithium disilicate frameworks.

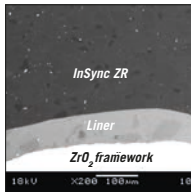
Also monolithic restorations made of ZrO_2 or lithium-disilicate, as well as titanium or titanium alloy can be created with only one ceramic system.



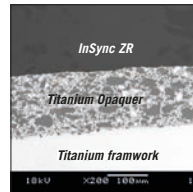
1.3 Material characteristics

reliable

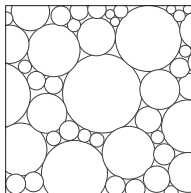
- The high-fusing, fluorescent and translucent Liner and the Titanium Opaquer ensure a secure bond between framework and layering ceramic. (1) (2)
- InSync ZR's unique particle size distribution ensures excellent sculptability, paired with low shrinkage. (3)
- The ceramic is leucite-free and has an amorphous crystal structure, which makes it particularly CTE stable. This means problem-free processing, even after repeated firing. (4)
- The combination of Liner or Titanium Opaquer, low firing temperature, CTE stability and adequate hardness minimise the risk of chipping.
- Due to the amorphous crystal structure, restorations with InSync ZR are exceptionally stable and resistant to chipping. (5) (6)
- High biocompatibility (7)



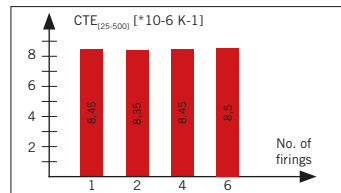
1: REM: Liner for a reliable, tight adhesive bond



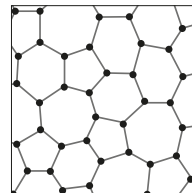
2: REM: Titan Opaquer for a reliable, tight adhesive bond



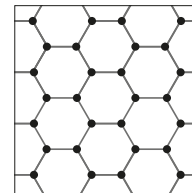
3: Particle size distribution



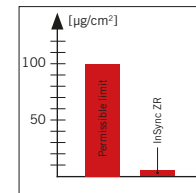
4: CTE stability



5: Amorphous crystal structure of InSync ZR



6: Crystalline structure of leucite ceramic



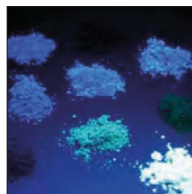
7: Chemical solubility according to ISO 6872

aesthetic

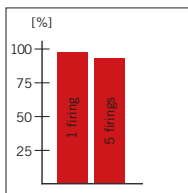
- For the InSync ZR Ceramic System, the base materials were developed completely from scratch. The fluorescence, translucency and opacity of the ceramic are based on the human tooth. These advantageous optical characteristics lend a high-quality, discerning aesthetic and naturally lifelike effect to all dental restorations.
- The hardness of the InSync ZR layering ceramic corresponds to that of a natural tooth. This minimises dysfunctions of the stomatognathic system.
- Special ingredients create a ceramic material with a subtle auto-fluorescence and unusual brilliance. (8) (9)
- The high colour stability and brilliance are retained even after repeated firing. (10) (11)



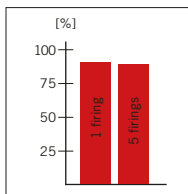
8: Colour pigments in daylight conditions



9: Fluorescent colour pigments (UV light)



10: Colour stability

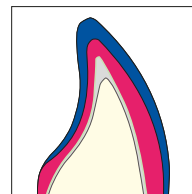


11: Opacity stability

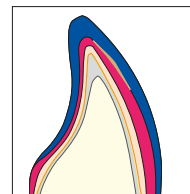
versatile

- Thanks to its wide CTE range and its low firing temperature, InSync ZR can be used in a wide range of applications for the veneering of zirconia, lithium disilicate, titanium and titanium alloy frameworks.
- With the consistent colour concept of InSync ZR anything is possible, from efficient BASIC layering with two masses to aesthetically demanding, individual ADVANCED layering. (12) (13)
- In combination with MiYO, the InSync ZR layering ceramic is perfect for restorations in smart hybrid technique. (14)
- The comprehensive colour palette - in accordance with the VITA® Classic Colour System* - offers almost unlimited creative possibilities.
- The ceramic system is rounded off by the high-gloss glaze paste that fires at low temperatures.

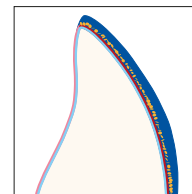
* VITA® Classic is a registered trademark of VITA Zahnfabrik H. Rauter GmbH & Co. KG



12: Efficient BASIC layering with 2 masses



13: Individual ADVANCED layering



14: Smart hybrid technique in combination with MiYO

1.4 InSync ZR System components

LINER

- Highly fluorescent and translucent in five different shades plus neutral. Fluorescence is the key to managing brightness.
- The high firing temperature ensures that a high degree of surface wetting is achieved. Due to its high fluidity, the Liner creates a perfect adhesive bond with zirconia.
- The five differently shaded Liners support colouration during layering. They are used for concealing white-opaque frames.
- Thanks to its fluorescence, the neutral Liner intensifies the colour effect of the shaded frames, contributing to a result that is identical to natural hues.
- Not suitable for use with lithium disilicate.

CORE DENTIN

- Available in six colours.
- Masses for a colour-supporting, highly chromatic and fluorescent core firing.
- Increase the light reflection and achieve a natural brightness when applied on ZrO₂ frameworks. The standard layering scheme can be maintained.
- Realisation of ZrO₂ restorations with considerably more brightness on opaque framework materials.



OPAQUE DENTIN

- The Opaque Dentins are available in all VITA® Classic shades as well as A00, A0, B00, B0 and in the Bleach shades BL1 - BL4.
- The degree of fluorescence is lower than that of the shoulder material but has a higher opacity level.
- Due to the opaqueness of the shades, thinner layered areas can be concealed.
- Unlike classic Opaque Dentins, chroma and fluorescence are so aligned that they do not stand out optically from the actual layering.
- With layers under 0.5mm thickness, Opaque Dentin can be used as a replacement for the respective Dentin.



DENTIN

- Developed for the dual-material layering technique. Due to the special staining, layering of any colour wheel tooth shades can be easily carried out "straight from the pot".
- Currently available in all VITA® Classic shades as well as A00, A0, B00, B0 and in the Bleach shades BL1-BL4.
- Opacity is set for a minimum layering thickness of 0.5/0.6mm. The use of Opaque Dentin for colour stabilisation is not necessary.
- The fluorescence of the Dentin material matches that of natural teeth.



ENAMEL / TRANSPA

- Standard Enamel - Light Yellow, Yellow, Orange and Dark Orange shaded form yellowish to orange.
- Standard Enamel (incisal) 57 - 59 shaded from whitish to blueish, is oriented towards the classic layering concept.
- Effect Enamel: Molar White and Light Grey are coloured incisal materials with a lower fluorescence and higher opacity.
- Neutral is used for correcting form without altering brightness.
- Opal and Opal+: opalescent in two different intensities with a lower chroma.



MAMELON

- High-density non-fluorescent intensive material.
- High chromaticity with a high opacity.
- Available in Salmon, Orange, Yellow and Ivory.

NECK TRANSPA

- High fluorescence and a high portion of chroma (colour), for the cervical area in order to retain light conductivity in the gingiva.
- Due to the high degree of fluorescence and the intensive colour, the neck transpa material is also suitable for interdental and occlusal lightening and colour intensifying purposes.
- Available in Yellow, Orange, Salmon and Khaki.



TRANSLUCENT

- Yellow, Orange, Light Brown, Pink, Light Blue, Intensive Blue, Grey, White and Clear were developed to create translucent incisal layering effects.
- Non-fluorescent with high translucency but enough chroma without any fading.
- For individual and dynamic light reflection.



CORRECTION

- Correction material, available for dentin and incisal margin. Low firing temperatures allow form correction after glaze firing.

GINGIVA

- Available in seven different shades. The darker shades have a dentin-like opacity, the lighter shades, that of the incisal materials.



MODIFIER

- Available in the base shades A,B,C,D to intensify the base tone. To be mixed into the Dentin or used to individualise the layering materials.
- The modifiers “dark fluorescent” and “light fluorescent” are used for managing brightness. Dark fluorescent has a violet/grey component, whilst light fluorescent is held in brilliant white.



BLEACH

- Bleach 1-4 is available as Dentin, Opaque Dentin, as well as for the corresponding incisal Margins.



TITAN OPAQUE

- The Titan Opaque reliably conceals titanium frames and guarantees an excellent adhesive bond between frame and veneering ceramic. No special bonding agent is needed.
- Available in all VITA® Classic shades.



GLAZE PASTE

The glazing paste is tested and approved for restorations on full zirconia, lithium disilicate, titanium and metal-ceramics.

Due to its unique glass matrix, the desired result is achieved after only one firing.



LIQUIDS

InSync one-for-all liquids are for universal use with all InSync ceramic materials.

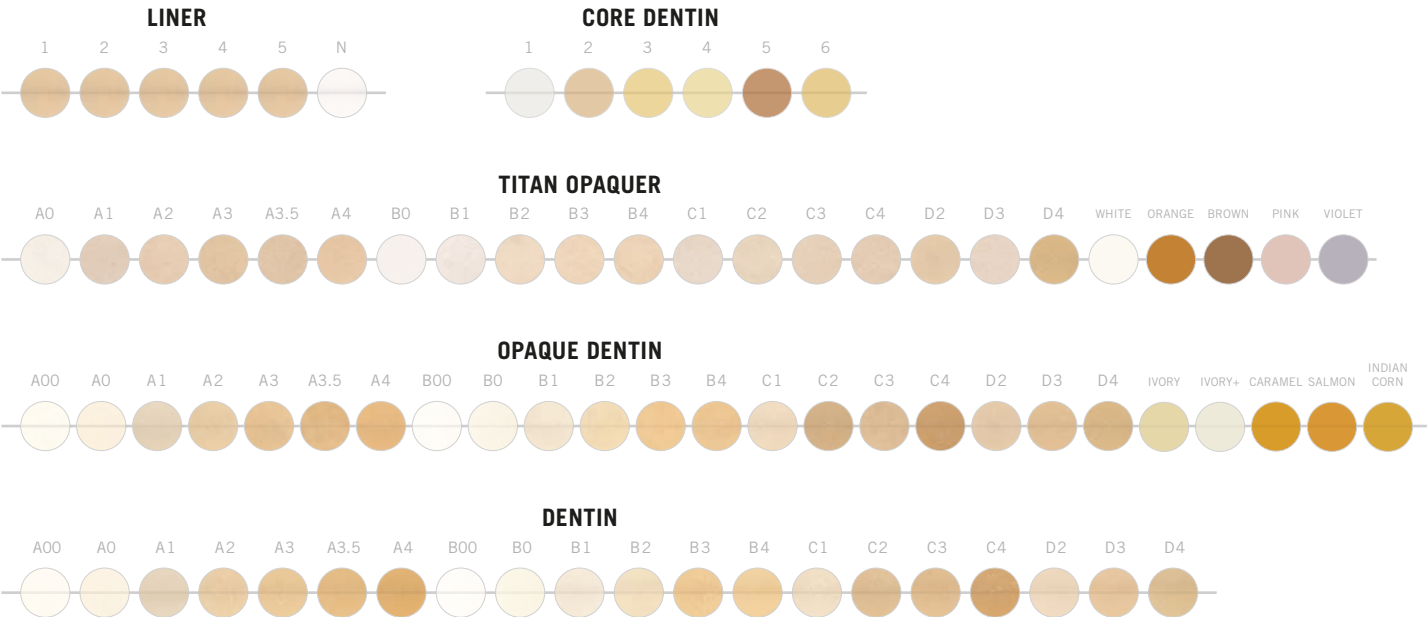
- Liner Liquid
- Modelling Liquid
- Opaque Liquid
- Stain / Glaze Liquid

1.5 Shade combination table

Shade	A1	A2	A3	A3,5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
Liner	1	2	2	2	4	1	1	2	2	1	3	3	4	1	5	5
Titan Opaquer	A1	A2	A3	A3,5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
Opaque Dentin	A1	A2	A3	A3,5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
Dentin	A1	A2	A3	A3,5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
Enamel	LIGHT YELLOW	YELLOW	YELLOW	DARK ORANGE	DARK ORANGE	LIGHT YELLOW	YELLOW	ORANGE	DARK ORANGE	YELLOW	YELLOW	ORANGE	DARK ORANGE	LIGHT YELLOW	YELLOW	ORANGE
Enamel*	57	57	58	59	59	57	58	58	59	58	59	59	59	59	59	59

* The Enamel masses 57-59 are used in combination with Core Dentin.

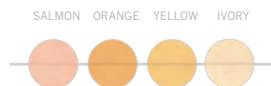
1.6 Colour table



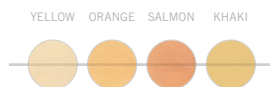
ENAMEL



MAMELONS



NECK TRANSPA



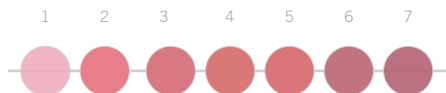
TRANSLUCENT



CORRECTION



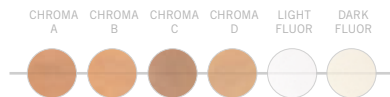
GINGIVA



BLEACH

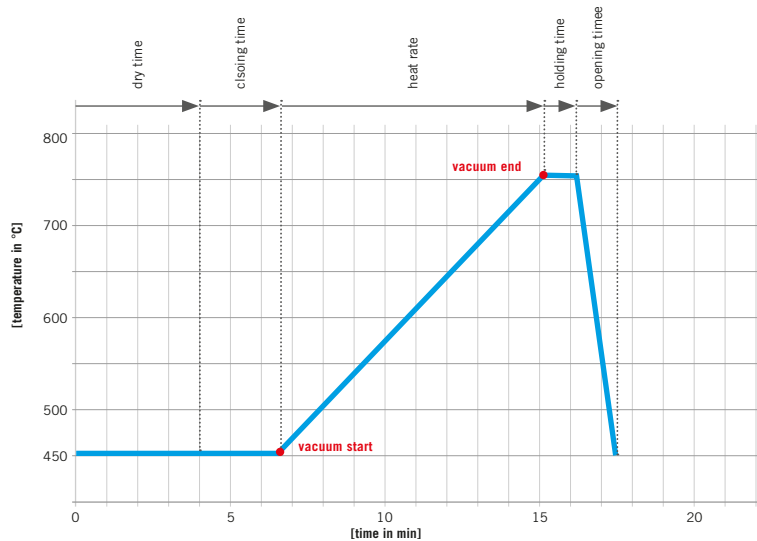


MODIFIER

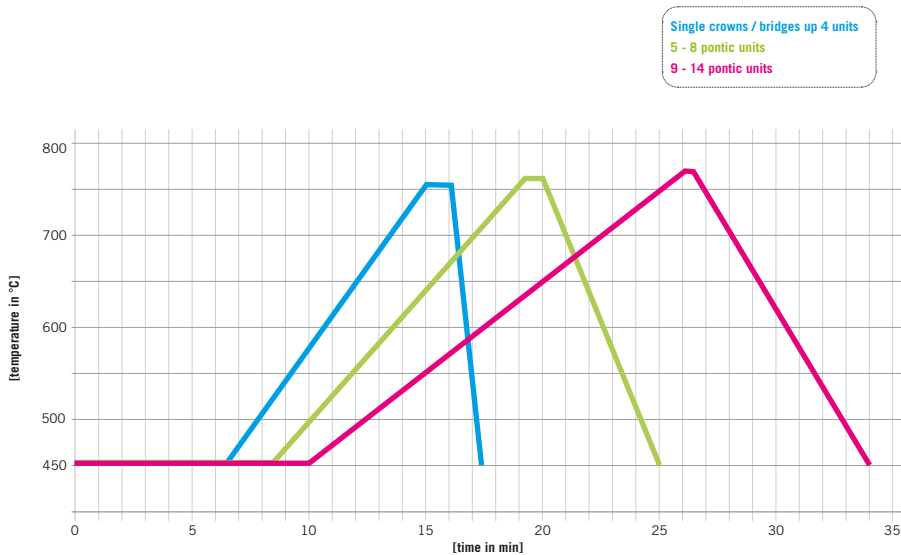


1.7 Firing graphs

- ! The firing temperatures indicated in the firing tables are standard values and may vary depending on the type of furnace. On the other hand, since ZrO_2 is a poor heat conductor, so the size of the restoration has a decisive influence on the firing result.
- The first dentin firing is used as an example to illustrate this; the firing procedure should be adapted accordingly for the other firings.



Example: 1. Dentin firing



DRY TIME

- Single crown / 2-4 pontic units : 4 min
- 5 - 8 pontic units: 5 min
- 9 - 14 pontic units: 6 min

CLOSING TIME

- Single crown / 2-4 pontic units: 2 min
- 5 - 8 pontic units: 3 min
- 9 - 14 pontic units: 4 min

HEAT RATE

- Single crown / 2-4 pontic units: 40°/ min
- 5 - 8 pontic units: 30°/ min
- 9 - 14 pontic units: 20°/ min

FINAL TEMPERATURE

- Single crown / 2-4 pontic units: 765°C
- 5 - 8 pontic units: 770°C
- 9 - 14 pontic units: 775°C

HOLDING TIME

- Single crown / 2-4 pontic units: 1 min
- 5 - 8 pontic units: 40 sec
- 9 - 14 pontic units: 20 sec

OPENING TIME

- Single crown / 2-4 pontic units: 1 min
- 5 - 8 pontic units: 5 min
- 9 - 14 pontic units: 8 min


1.8 Firing tables

The following firing temperatures are reference values and can vary according to furnace type.

Please note the information on firing graphs in chapter 1.4

! We recommend, where the construction allows, that a slow cooling phase of six minutes to achieve the stand-by temperature be carried out during the last firing (glaze and stain firing).


Firing table for ZrO₂ restorations

	Starting temperature [°C]	Dry time [min]	Closing time [min]	Vacuum start [°C]	Heat rate [°C / min]	End temperature [°C]	Vacuum end [°C]	Holding time [min]	Opening time [min]
1. Liner firing*	450	6	2	450	60	970	970	1	1
2. Liner firing*	450	6	2	450	60	960	960	1	1
Core Dentin firing*	450	4	2	450	40	810	810	1	1
1. Dentin firing	450	4	2	450	40	765	765	1	1
2. Dentin firing	450	4	2	450	40	760	760	1	1
Correction**	450	4	2	450	45	700	700	1	1
Glaze firing without glazing material	450	4	---	---	45	755	---	1	1
Glaze firing with glazing material	450	3	4	580	45	720	720	1	1


* Not suitable for use with lithium disilicate.

** Correction firing with correction material.

Firing table for Lithium-Disilicate restorations

	Starting temperature [°C]	Dry time [min]	Closing time [min]	Vacuum start [°C]	Heat rate [°C / min]	End temperature [°C]	Vacuum end [°C]	Holding time [min]	Opening time [min]
1. Dentin firing	450	4	2	450	40	765	765	1	1
2. Dentin firing	450	4	2	450	40	760	760	1	1
Correction**	450	4	2	450	45	700	700	1	1
Glanzbrand ohne Glasur	450	4	---	---	45	755	---	1	1
Glasurbrand mit Glasur	450	3	4	580	45	710	710	1	1

Firing table for titanium restorations

	Starting temperature [°C]	Dry time [min]	Closing time [min]	Vacuum start [°C]	Heat rate [°C / min]	End temperature [°C]	Vacuum end [°C]	Holding time [min]	Opening time [min]
Opaque firing*	450	4	2	450	55	800	800	2	1
Core Dentin firing*	450	4	2	450	45	800	800	1	1
1. Dentin firing	450	4	2	450	45	760	760	1	1
2. Dentin firing	450	4	2	450	45	750	750	1	1
Correction**	450	4	2	450	45	700	700	1	1
Glaze firing without glazing material	450	4	---	---	45	735	---	1	1
Glaze firing with glazing material	450	3	4	580	45	720	720	1	1

* Not suitable for use with lithium disilicate.

** Correction firing with correction material.

1.9 Technical data

	Type	Class	CTE 2x firing (25 - 500°C) [*10 ⁻⁶ K ⁻¹] ± 0,5	CTE 4x firing (25 - 500°C) [*10 ⁻⁶ K ⁻¹] ± 0,5	Tg* 2x/4x firing [°C] ± 20	Chemical solubility		3-point flexural strength	
						InSync ZR [µg/cm ²]	Classification acc. to ISO 6872 [µg/cm ²]	InSync ZR [MPa]	Classification acc. to ISO 6872 [MPa]
InSync ZR Titan Opaquer	I	1b	9,2	9,2	550	≤ 30	< 100	≥ 125	> 50
InSync ZR Liner	I	1b	9,8	9,8	640	≤ 20	< 100	≥ 80	> 50
InSync ZR Core Dentin	I	1b	8,5	8,5	570	≤ 20	< 100	≥ 70	> 50
InSync ZR Dentin	I	1b	8,5	8,5	530	≤ 20	< 100	≥ 70	> 50
InSync ZR Enamel, Modifier	I	1b	8,5	8,5	530	≤ 20	< 100	≥ 70	> 50
InSync ZR Transpa, Clear, Opal	I	1b	8,5	8,5	530	≤ 20	< 100	≥ 70	> 50
InSync ZR Correction	I	1b	8,5	8,5	500	≤ 20	< 100	≥ 70	> 50
InSync Glaze Paste	I	1b	7,3 (1x)	---	485 (1x)	< 100	< 100	> 50	> 50

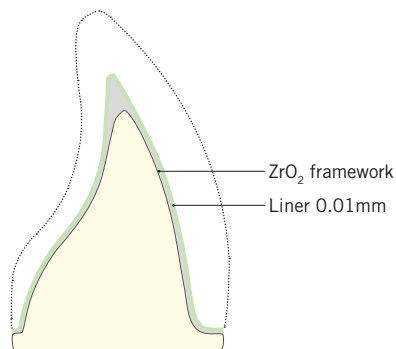
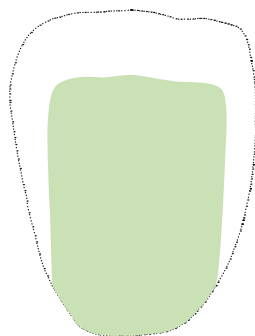
Characteristics tested in accordance with ISO 6872 and ISO 9693 / * For Tg 2x/4x less than 500°C, the CTE value is given as [25 °C -TG]



2 Framework preparation



2.1 Framework preparation – Zirconia



APPLICATION

The fluorescent and translucent Liner guarantees a high degree of surface wetting. It ensures a reliable, homogeneous bond as well as a good flow of light between frame and veneering ceramic. The Liner “neutral” uses its fluorescence to intensify the colour effect of the shaded frame. Use the Liners 1-5 in accordance with the colour matching table to achieve the desired shade on white, unshaded zirconia.

PROCESSING

- Mix Liner powder with Liner Liquid
- Apply the Liner evenly in a thin layer
- ! • Not suitable for use with lithium disilicate

FIRING

- Carry out the first Liner firing according to furnace-specific firing parameters
- Optional: second Liner firing if coverage is not satisfactory

MATERIALS USED

- Liner
- Liner Liquid





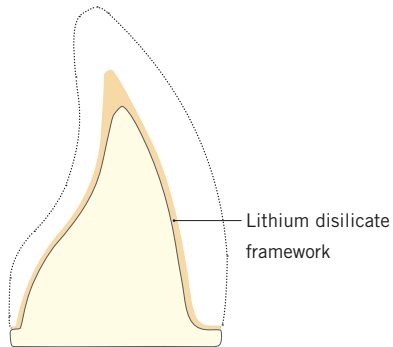


2.2 Framework preparation - Lithium Disilicate

! 50 µm / 2 bar



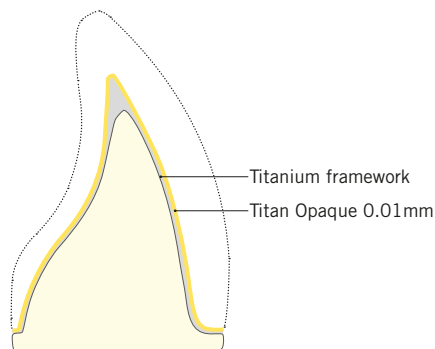
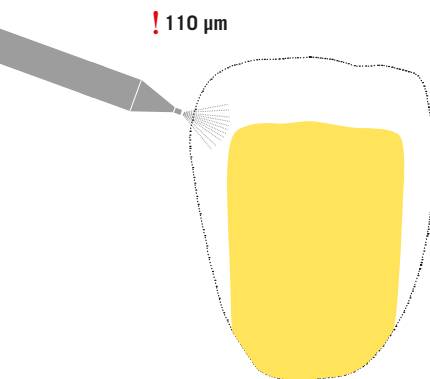
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PROCESSING

- Sand blast surface with aluminium oxide 50 µm and 2 bar pressure
- Clean carefully with steam jet
- ! Do not apply Liner

2.3 Framework preparation – Titanium



APPLICATION

Titan Opaque reliably conceals the frame and creates an excellent adhesive bond between frame and veneering ceramic. The use of a bonding agent is not necessary.

PROCESSING

- Choose Titan Opaque according to the colour matching table
- Mix Titan Opaque with Opaque Liquid to form a creamy consistency
- Sand blast surface with aluminium oxide 110 µm until no more sparks fly
- Clean carefully with steam jet
- Carry out wash firing max. 15 min after sand blasting
- ! Apply Titan Opaque to the frame using a flat brush wetted with Opaque Liquid (remove excess!) so that approx. 70% optimal metal coverage is achieved
- Do not vacuum opaque layer
- Carry out wash firing in accordance with furnace-specific parameters
- Apply second layer of Titan Opaque for complete frame coverage
- Carry out second Opaque firing in accordance with furnace-specific parameters

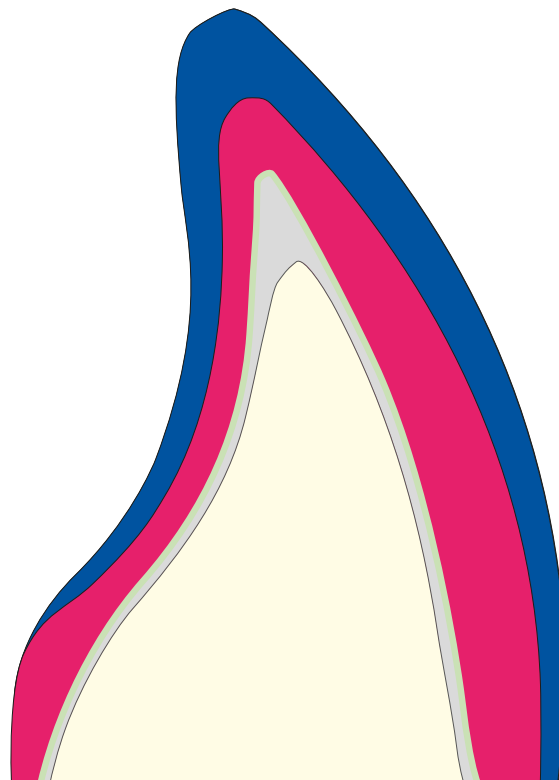
MATERIALS USED

- Titan Opaque
- Opaque Liquid

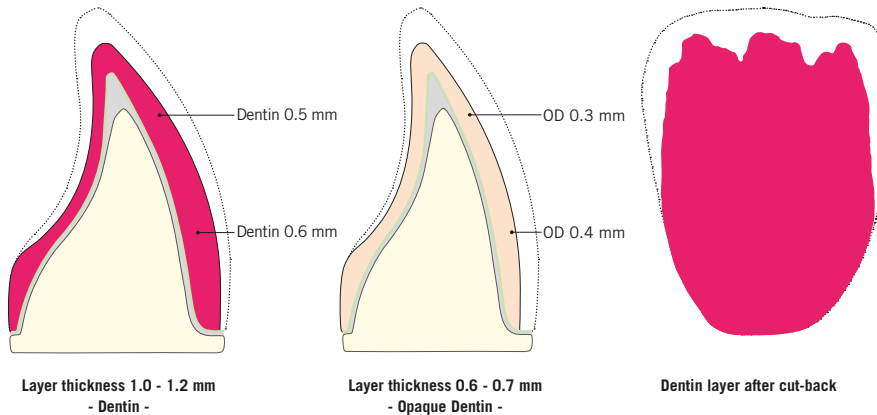


3 BASIC Layering

With BASIC standard layering, colour wheel-identical results can be achieved with the smallest amount of effort and in the shortest time.



3.1 BASIC - Dentin / Opaque Dentin



APPLICATION

Cover anatomical form with Dentin. In the case of tight spatial conditions (layer thickness 0.6 - 0.7 mm), Opaque Dentin is used instead of Dentin.

PROCESSING

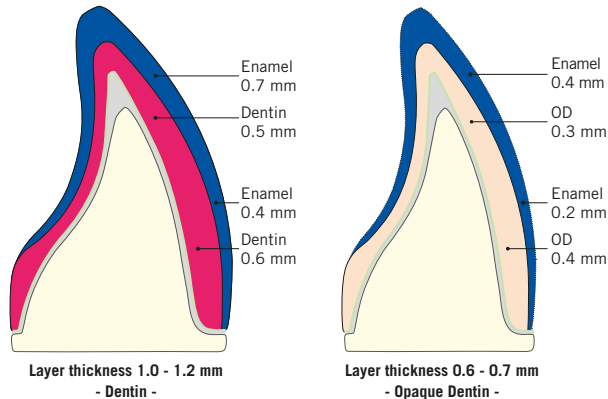
- Mix the Dentin / Opaque Dentin with Modelling Liquid to form a creamy consistency
- Apply the Dentin / Opaque Dentin to create the desired tooth form
- Reduce the incisal area (cut-back)

MATERIALS USED

- Dentin / Opaque Dentin
- Modelling Liquid



3.2 BASIC - Enamel / 1. Dentin firing



APPLICATION

Build up the tooth form with Enamel. Standard Enamel shades are based on a classical layering diagram.

PROCESSING

- Choose the Enamel material according to the colour matching table
- Mix the Enamel with Modelling Liquid to form a creamy consistency

MATERIALS USED

- Enamel
- Modelling Liquid

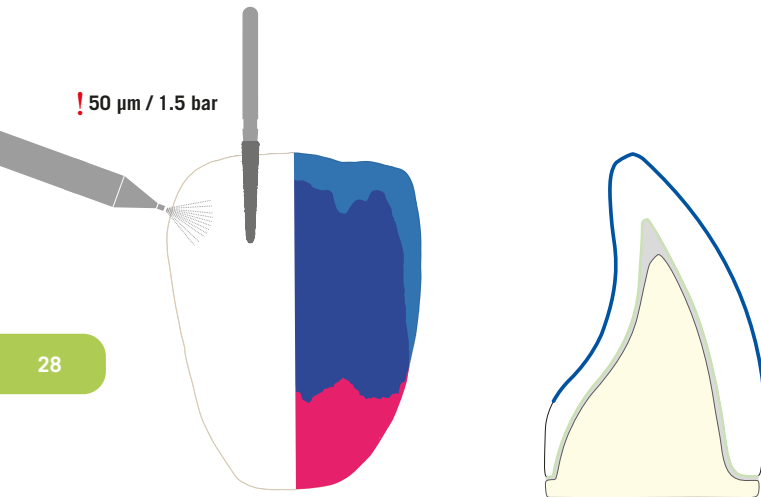


FIRING

- Carry out 1. Dentin firing according to furnace-specific firing parameters



3.3 BASIC - Enamel / 2. Dentin firing



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APPLICATION

For form correction and shrinkage compensation after the first firing, build up the tooth form with Enamel and carry out a 2. Dentin firing in accordance with the firing parameters.

PROCESSING

- Mix the Enamel with Modelling Liquid to form a creamy consistency
- Roughen the surface by sanding the fired crown with a diamond abrasive head and / or sandblast with 50 µm aluminium oxide and 1.5 bar pressure
- Fill out the tooth form using Enamel

MATERIALS USED

- Enamel
- Modelling Liquid



FIRING

- Carry out 2. Dentin firing according to furnace-specific firing parameters



3.4 BASIC - Glaze Firing



GLAZE FIRING WITHOUT GLAZE PASTE

- Create the final contours of the crown/bridge with diamond or carbide abrasive head and polish to the desired gloss level with the rubber polishing head. Then clean with steam jet.
- Carry out Glaze Firing (without Glaze Paste) in accordance with furnace-specific parameters

GLAZE FIRING WITH GLAZE PASTE

- Create the final contours of the crown/bridge with diamond or carbide abrasive head polisher and clean with steam jet.
- Apply a thin layer of InSync "one-for-all" Glaze Paste or a mixture of Glaze Powder mixed with Stain/Glaze Liquid.
- Carry out Glaze Firing (with Glaze Paste) in accordance with furnace-specific parameters

MATERIALS USED

- Glaze Paste
- Stain / Glaze Liquid

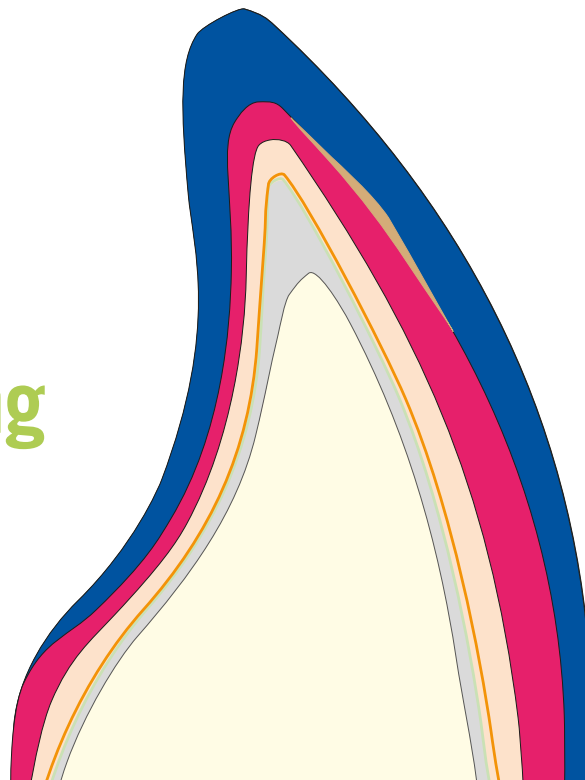


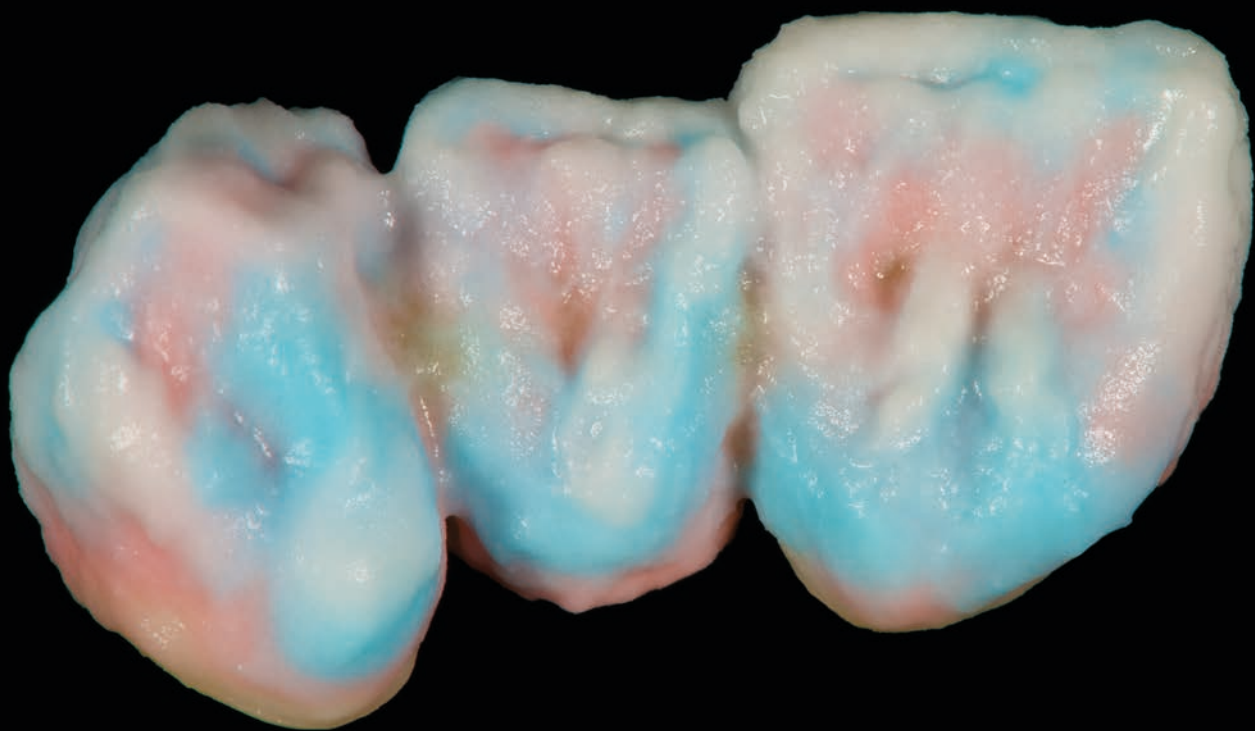


Glaze paste application/ Photo: ZTM Axel Gütes

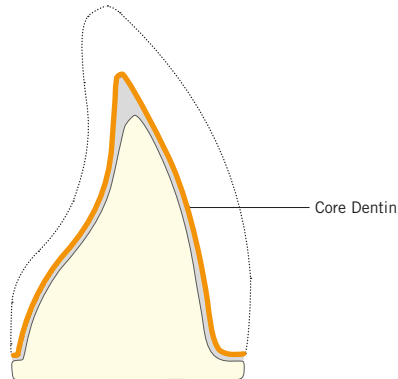
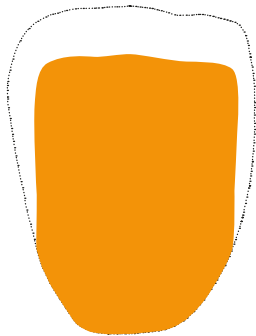
4 ADVANCED Layering

Work with the ADVANCED layering technique to achieve individual, creative results.





4.1 ADVANCED - Core Dentin



APPLICATION

High chromatic fluorescent material to support the brightness value in the body area.

PROCESSING

- Mix Core Dentin with Modelling Liquid to form a creamy consistency
- Apply only reduced tooth form to conceal the framework

FIRING



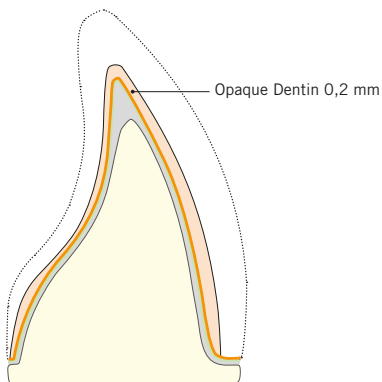
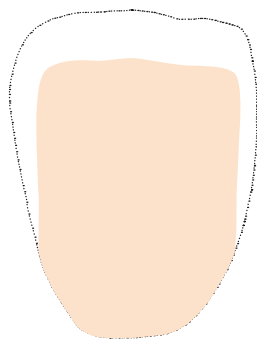
Carry out Core Dentin firing in accordance with furnace-specific firing parameters

MATERIALS USED

- Core Dentin
- Modelling Liquid



4.2 ADVANCED - Opaque Dentin



APPLICATION

Opaque Dentin is used to conceal the frame. By varying the layer thickness of Opaque Dentin, brightness (value) and colour intensity (chroma) can be managed.

PROCESSING

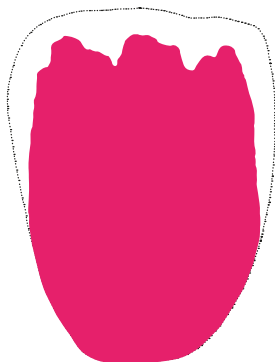
- Apply the Opaque Dentin mixed with Modelling Liquid
- Only apply a reduced tooth form to conceal frame

MATERIALS USED

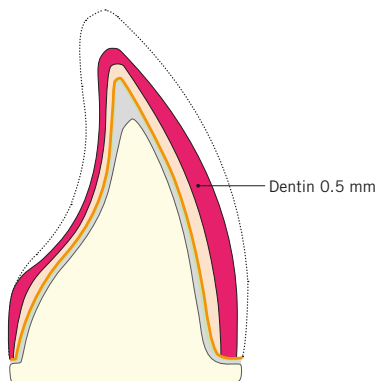
- Opaque Dentin
- Modelling Liquid



4.3 ADVANCED - Dentin



Dentin layering after cut-back



APPLICATION

Apply Dentin to anatomical form. Modifier material can be mixed with the Dentin to individualise the result.

PROCESSING

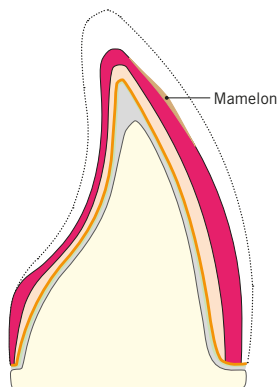
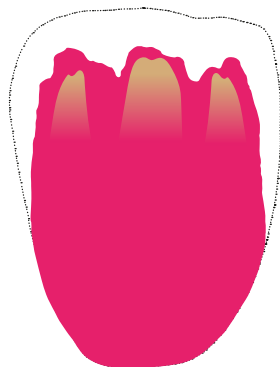
- Mix Dentin with Modelling Liquid to form a creamy consistency
- Apply Dentin to create the desired tooth form
- Reduce the incisal area (cut-back)

MATERIALS USED

- Dentin
- Modifier (optional)
- Modelling Liquid



4.4 ADVANCED - Mamelon



APPLICATION

The Mamelon materials with high opacity and high chroma are available in salmon, orange, yellow and ivory.

PROCESSING

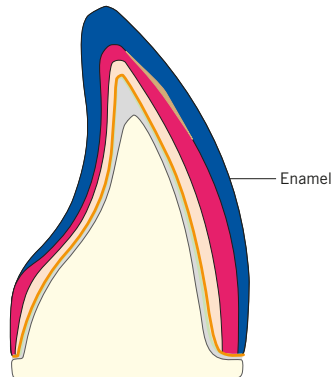
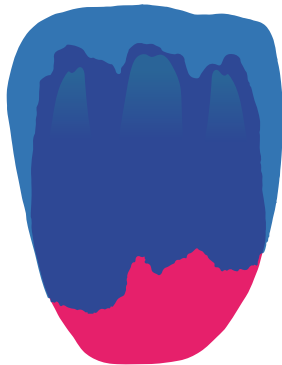
- Mix Mamelon materials with Modelling Liquid
- Apply Mamelon material thinly in the incisal area
- By varying the layer thickness, the intensity of the mamelons can be regulated

MATERIALS USED

- Mamelon
- Modelling Liquid



4.5 ADVANCED - Enamel



APPLICATION

For individualising the incisal area

PROCESSING

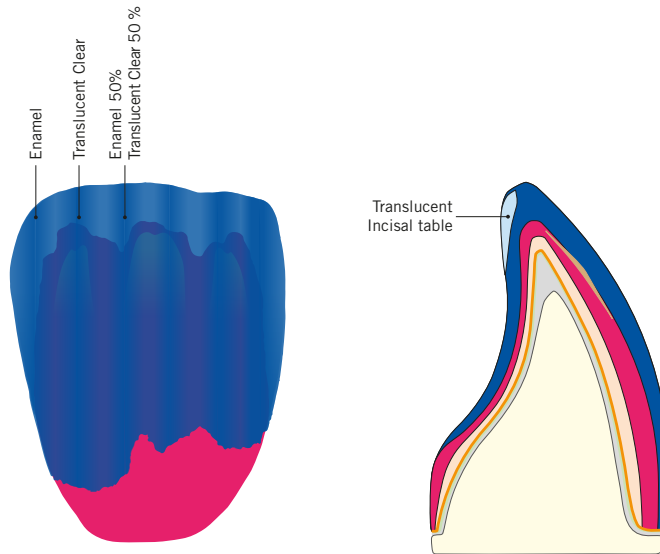
- Mix Enamel with Modelling Liquid to form a creamy consistency
- Apply Enamel to create the desired tooth form

MATERIALS USED

- Enamel
- Modelling Liquid



4.6 ADVANCED - Translucent



APPLICATION

Build up the tooth form by overlaying with Enamel, Translucent Clear and a mixture (50:50) of Enamel and Translucent Clear. Due to the low shrinkage rate, overcontouring is not necessary.

PROCESSING

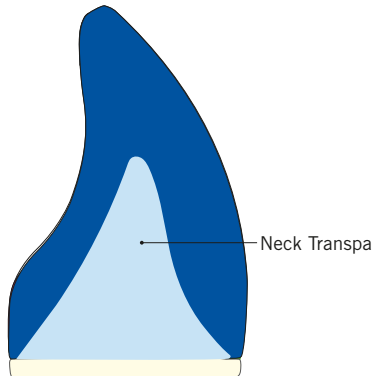
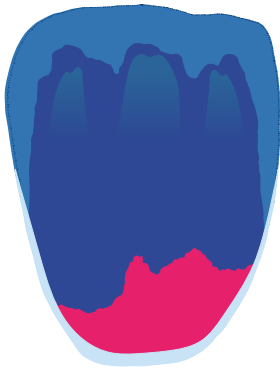
- Mix the materials with Modelling Liquid
- Build palatal area with Translucent, and Neck Transpa to create an incisal table
- Internal effects such as mamelons

MATERIALS USED

- Enamel
- Translucent
- Modelling Liquid



4.7 ADVANCED - Neck Transpa / 1. Dentin firing



APPLICATION

Neck Transpas are used to intensify the flow of light and support the chroma. In the posterior region, Neck Transpa can be used as an occlusal support.

PROCESSING

- Mix Neck Transpa with Modelling Liquid
- Apply Neck Transpa to the proximal areas

FIRING

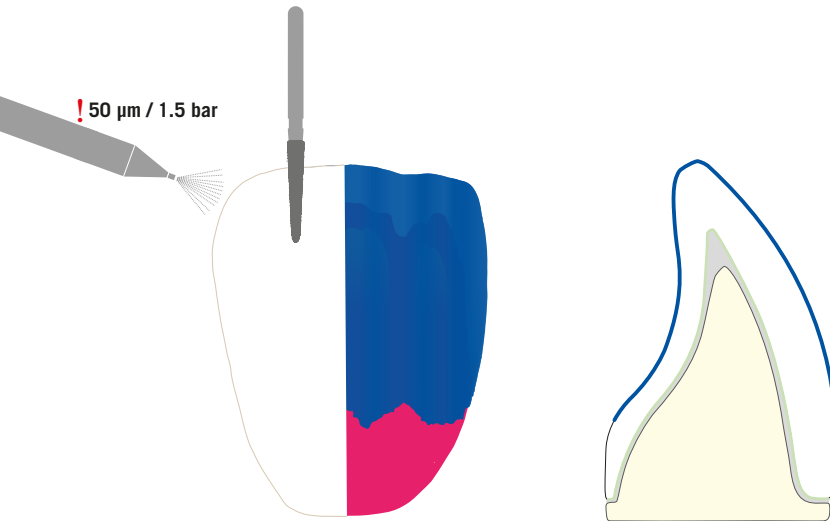
- Carry out 1. Dentin firing in accordance with furnace-specific firing parameters

MATERIALS USED

- Neck Transpa
- Modelling Liquid



4.8 ADVANCED - 2. Dentin firing



APPLICATION

For form correction and shrinkage compensation after the first firing, the materials can be added in accordance with the previous layering and a second dentin firing can be carried out.

PROCESSING

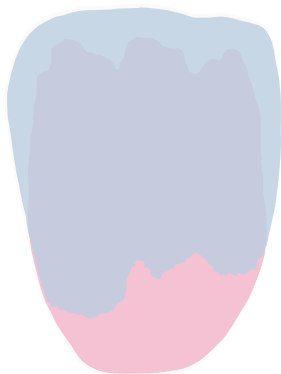
- Mix the materials with Modelling Liquid to form a creamy consistency
- Roughen the surface by sanding the fired crown with a diamond abrasive head and/or sandblast with 50 µm aluminium oxide and 1.5 bar pressure
- Build up the tooth form using the respective materials

FIRING

- Carry out 2. Dentin firing in accordance with furnace-specific firing parameters

4.9 ADVANCED - Glaze Firing

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GLAZE FIRING WITHOUT GLAZE PASTE

- Create the final contours of the crown/bridge with diamond or carbide abrasive head and polish to the desired gloss level with the rubber polishing head. Then clean with steam jet.
- Carry out Glaze Firing (without Glaze Paste) in accordance with furnace-specific parameters

GLAZE FIRING WITH GLAZE PASTE

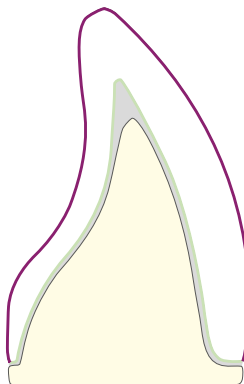
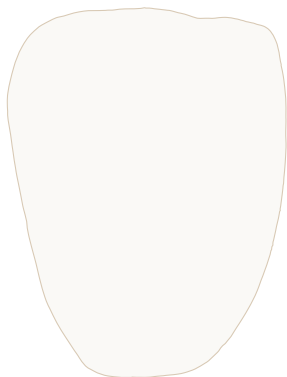
- Create the final contours of the crown/bridge with diamond or carbide abrasive head polisher and clean with steam jet.
- Apply a thin layer of InSync “one-for-all” Glaze Paste or a mixture of Glaze Powder mixed with Stain/Glaze Liquid.
- Carry out Glaze Firing (with Glaze Paste) in accordance with furnace-specific parameters

MATERIALS USED

- Glaze Paste
- Stain / Glaze Liquid



4.10 ADVANCED - Correction



APPLICATION

Correction Dentin or Correction Enamel material is used for correction work after completion of the crown.

PROCESSING

- Mix the Correction Dentin / Correction Enamel with Modelling Liquid to form a creamy consistency
- Apply where necessary

MATERIALS USED

- Correction Dentin
- Correction Enamel
- Modelling Liquid



FIRING

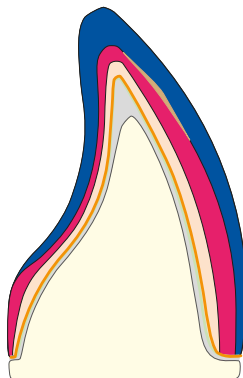
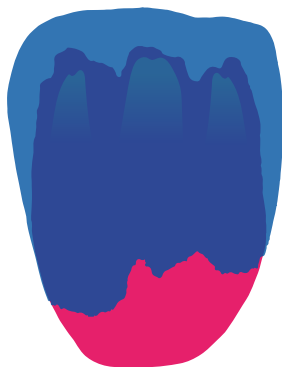


- Carry out Correction Firing in accordance with furnace-specific firing parameters

► FINISHING CHAPTER 6

5 BLEACH Layering

The layering of Bleach colours follows the same layering scheme as described under BASIC and ADVANCED.



APPLICATION

Use of BLEACH materials in accordance with the BASIC layering technique.

All individualisation is to be carried out in the same way as described in the section on ADVANCED layering.

MATERIALS USED

- Bleach Dentin
- Bleach Opaque Dentin
- Bleach Enamel



- For individualisation - all materials used in ADVANCED layering
- Modelling Liquid

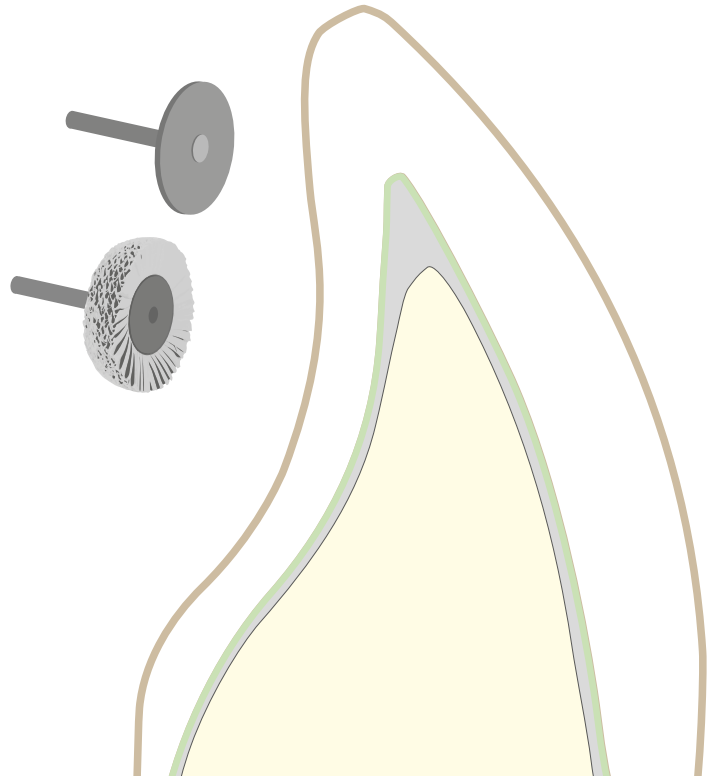


FIRING

Firing is to be carried out as described for the respective materials under the sections on BASIC and/or ADVANCED layering techniques.

6 Finishing

After glaze firing, the crown's degree of gloss can be regulated using the polishing device and pumice powder, or with a hand-held polisher and diamond polishing paste.





7 Notes

WARNING NOTICES CONCERNING PROCESSING PROCEDURE



For dental use only. Application may only be carried out by trained specialists.



During the course of preparing ceramic restorations (sanding, polishing), dust particles and splitter fragments may occur. Wear eye protection and avoid inhaling dust from sanding processes. We recommend the use of an extraction system and/or the wearing of a protective mask and safety goggles. Material contact with skin, mucous membranes and eyes should be avoided. Care must be taken when working with high temperatures, e.g. during firing. Danger of burns; wear gloves.



Due to the differing ceramic furnace construction types on the market, firing conditions can vary. This must be taken into account and examined by the customer on their own responsibility. The firing temperatures stated herein are only guideline values. Careful attention should be paid to the cleanliness of the brushes and spatula. Any contamination from the outside can have a negative influence to the firing result. Danger of contamination!

When using zirconia, lithium disilicate or titanium frames, please adhere to the manufacturers' instructions. The recommendations and notes in the respective operating manuals are to be adhered to.

Powder must not be returned to its container after mixing or contact with moisture. No contact between the powder and a humid brush or humid instruments in the powder container. Danger of contamination!



KEEP CLOSED

CONTRAINDICATION

It is not permitted to combine materials with those of other product systems or from other manufacturers. Clinical problem cases are generally excluded from an indication.

STORAGE AND DISPOSAL

Store in a dry place.

Small quantities can be deposited in household waste.

DISCLAIMER

No liability is accepted for damages which result from incorrect or improper use. These materials are intended exclusively for dental use. The user shall be solely responsible for testing the material with respect to its suitability prior to use. We cannot accept any liability if the product is used in conjunction with materials and equipment from other manufacturers which are not compatible or not authorised for use with our product. Furthermore, our liability is limited to the correctness of this information, independent from the legal ground and as far as legally allowed, in any case, it is limited to the value of the shipped material excl. VAT.

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