

zirkon titan



Instruction for use
estetic ceram ag



CE 0483

zirkon titan Content



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The estetic ceram layering ceramic **zirkon titan** is a leucite glass ceramic and is coloured according to the Vita®* classical shade guide A1-D4. The **zirkon titan** layering ceramic is only

intended for dental applications and for use by trained professionals. Matched transparency and fluorescence allows reconstruction of natural teeth as metal-ceramic crowns and bridges on

titanium and titanium alloys, as well as all-ceramic crowns or bridges made of stabilized tetragonal zirconia (Y-TZP)

Indication

- Veneering of suitable dental frameworks for the zirconium ceramic technique on
 - stabilized tetragonal zirconium oxide (Y-TZP) with a thermal expansion of approx. $10.6 \times 10^{-6} \text{ x K}^{-1}$ (25 - 500 °C) or
- Veneering of suitable dental alloys for the metal-ceramic technic with a thermal expansion (CTE) of $9.6 \times 10^{-6} \text{ x K}^{-1}$ (25 - 500 °C) from
 - titanium and titanium alloys, cast or milled or laser sintered.
- The frameworks must have an anatomically reduced shape, have sufficient stability and allow uniform ceramic layer thicknesses with a maximum layer thickness of 1.5 - 2 mm. Edges and tips are to be rounded off. Missing substance must be replaced by the framework material.

Contraindication

- Combinations with ceramic materials outside of the described range of product systems and/or material from another manufacturer.
- Use of non-approved framework materials.
- Sharp edges and corners on the framework or non-anatomically reduced frame shapes.
- Dental ceramic and complete ceramic restorations made of glass ceramics are not recommended for patients with bruxism or parafunction.

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zirkon titan Framework Fabrication (Ti)



prepared Titanium framework

Titanium framework

The fabrication of metal framework (casting, processing, cleaning/oxidation) must be performed according to the manufacturer's instructions. The framework must have a reduced anatomical shape and should provide enough space for an even coating of layering ceramic < 2 mm. Sharp edges and corners need to be rounded off.

zirkon titan Opaque Bake (Ti)



Titanium framework after opaque bake

Spread the **titanium opaque powder** with the special **opaque liquid** to a creamy but firm paste. Apply the first opaque layer on the clean, dry framework with a flat brush, until the optimum coverage of the metal has been reached (no suction!).

1st Opaque Bake

After the opaque application, the crown or bridge is dried under the open furnace at a starting temperature of 400 °C for 1-2 minutes. Subsequently the furnace is closed with a 6 minute drying time and heated at a rate of 55 K/min with vacuum (vacuum starting at 450 °C) to 800 °C. Hold time: 2 minutes (without vacuum)

2nd Opaque Bake

Clean the framework and the layering with steam or water and brush thoroughly before another porcelain application. With the application of the second opaque layer the metal frame work is completely covered. Continue with the same procedure as in the first powder opaque bake (800 °C).

zirkon titan Margin Bake (Ti)



Titanium-prepared coping



Titanium-coping after opaque bake



Titanium-coping before margin bake



Titanium-coping after margin bake



1st Margin Bake

Apply a thin layer of **isolation liquid** to the shoulder of the die. Mix the margin powder with **modeling liquid L2 (margin)** to a creamy consistency. Apply margin shoulder ceramic mix in small portions and condense by tapping, suction any excess liquid and dry well. Clean the framework and the layering with steam or water and brush thoroughly before another porcelain application. After the margin application, the crown or bridge is placed on a firing tray at a starting temperature of 400 °C. Subsequently the furnace is closed with a 4 minute closing time and then heated at a rate of 45 K/min with vacuum (vacuum starting at 450 °C) to 800 °C (bake temperature). Hold time: 1 minute without vacuum. After the first bake, place the crown on the die and remove excess materials.

2nd Margin Bake

A second margin application follows where necessary to optimize the fit. 2nd bake see first bake (790 °C).

Important note: Clean the framework and the layering with steam or water and brush thoroughly before any further porcelain application.

zirkon titan Dentine/Incisal Bake (Ti)



before dentine bake*



after dentine bake



before incisal bake



after incisal bake

1st Dentine/Incisal Bake

After the dentine application the crown is placed on a firing tray at a starting temperature of 400 °C. Subsequently the furnace is closed with a 4 minute closing time and then heated at 45 K/min with vacuum (vacuum starting at 450 °C) to 760 °C (bake temperature). Hold time: 1 minute (without vacuum).

After the first dentine/incisal firing is complete, trim the crown or bridge and clean. Next, apply a second layer of dentine and incisal for the second dentine firing to complete.

Mix ceramic powder (dentine and/or incisal) with **modeling liquid** to a creamy consistency. Apply opaque dentine, dentine and incisal ceramic in small portions to the cervical and interdental area and compact by light vibration. Then more opaque dentine, dentine or incisal is applied according to the tooth layering.

Important note: Clean the framework and the layering with steam or water and brush thoroughly before any further porcelain application.

2nd Dentine/Incisal Bake

Same procedure as by the first dentine firing, except with a firing temperature of 750 °C. Any further dentine firings should be carried out at 740 °C.

* Dentine and incisal firing is of course also possible in one go and is common practice.

zirkon titan Glaze Finish/Glaze Firing (Ti)



elaborated for stains/glaze firing



after stains/glaze firing

Glaze Firing

After the stains/glaze application the crown or bridge is placed on a firing tray at a starting temperature of 400 °C. Subsequently the furnace is closed with a 4 minute closing time and then heated at 45 K/min without vacuum to 710 °C (bake temperature). Hold time: 1 minute (without vacuum).

Natural Glaze

Place the crown on a firing tray at a starting temperature of 400 °C. Subsequently close the furnace with a 4 minute closing time and then heat at a rate of 45 K/min with vacuum to 740 °C (bake temperature). Hold time: 1 minute (without vacuum).

zirkon titan Modeling «nature» (Ti)



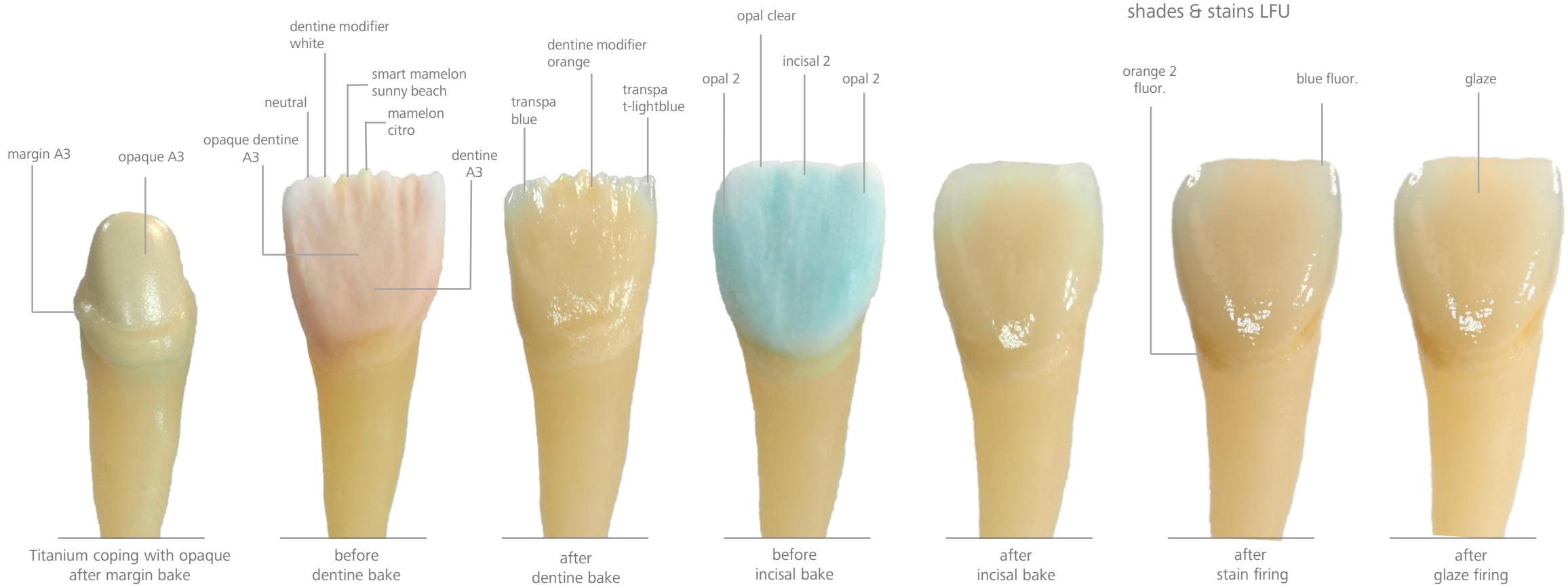
For the simpler «nature» modeling, a thin layer of opaque dentine can be applied after the opaque firing to create a deep effect. The tooth body can be built up with dentine materials, slightly contoured and covered with incisal material. After completing the dentine/incisal firing, **shades & stains LFU** can be used to highlight aspects of the finished crown that match the tooth colour. The gloss finish can then be made with **glaze LFU**. (Firing chart on page 34)

zirkon titan Colour Matching (Ti)


estetic ceram



zirkon titan Modeling «individual» (Ti)



For the «individual» modeling, a thin layer of opaque dentine can be applied after the opaque and margin firing for the optical depth effect. Dentine, modifiers, mamelons and various transpa materials are then applied analogously to the internal structure of natural teeth. After the dentine firing, the crown can be completed with various incisal and opal materials and fired. Special colour aspects of the finished crown can be highlighted with the **shades & stains LFU**. With the **glaze LFU** the crown gets its gloss finish. (Firing chart see page 34)

zirkon titan Monolayer (Ti)



monolayer
M1



monolayer
M2



monolayer
M3

With estetic ceram **zirkon titan monolayer** it is possible to produce all 16 Vita® tooth shades with coordinated transparency and fluorescence simply, quickly and efficiently with just 3 ceramic materials

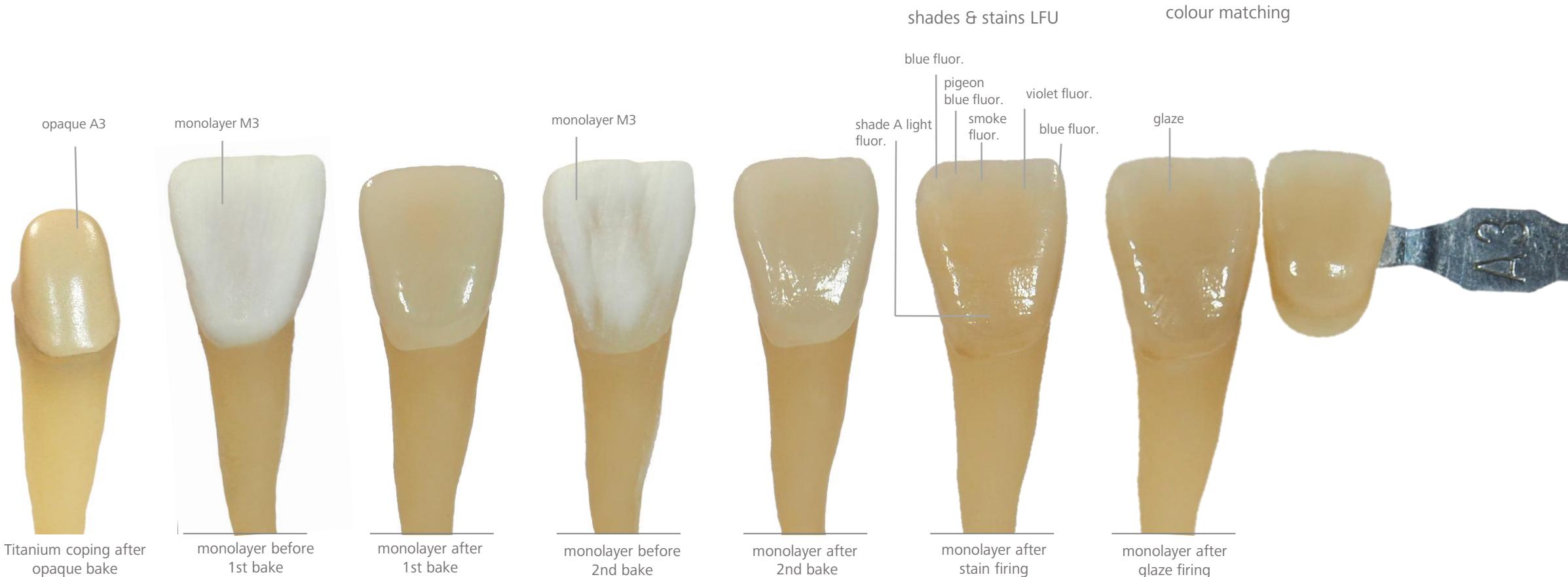
Note: Combination table on page 33.

colour matching



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zirkon titan Monolayer Modeling (Ti)



In order to obtain the tooth shade A3, the complete tooth shape can be enlarged with the **zirkon titan monolayer M3** and applied to the coping that was opaque with opaquer A3. After firing and finishing the crown, the tooth shade (A3) can be optimally matched to the Vita® * shade guide with estetic ceram **shades & stains LFU**. (see the matching colour assignment of the **shades LFU** in the combination table on page 33). The gloss finish can be achieved with the estetic ceram **glaze LFU**.

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zirkon titan Correction Bake (Ti)



correction
dentine



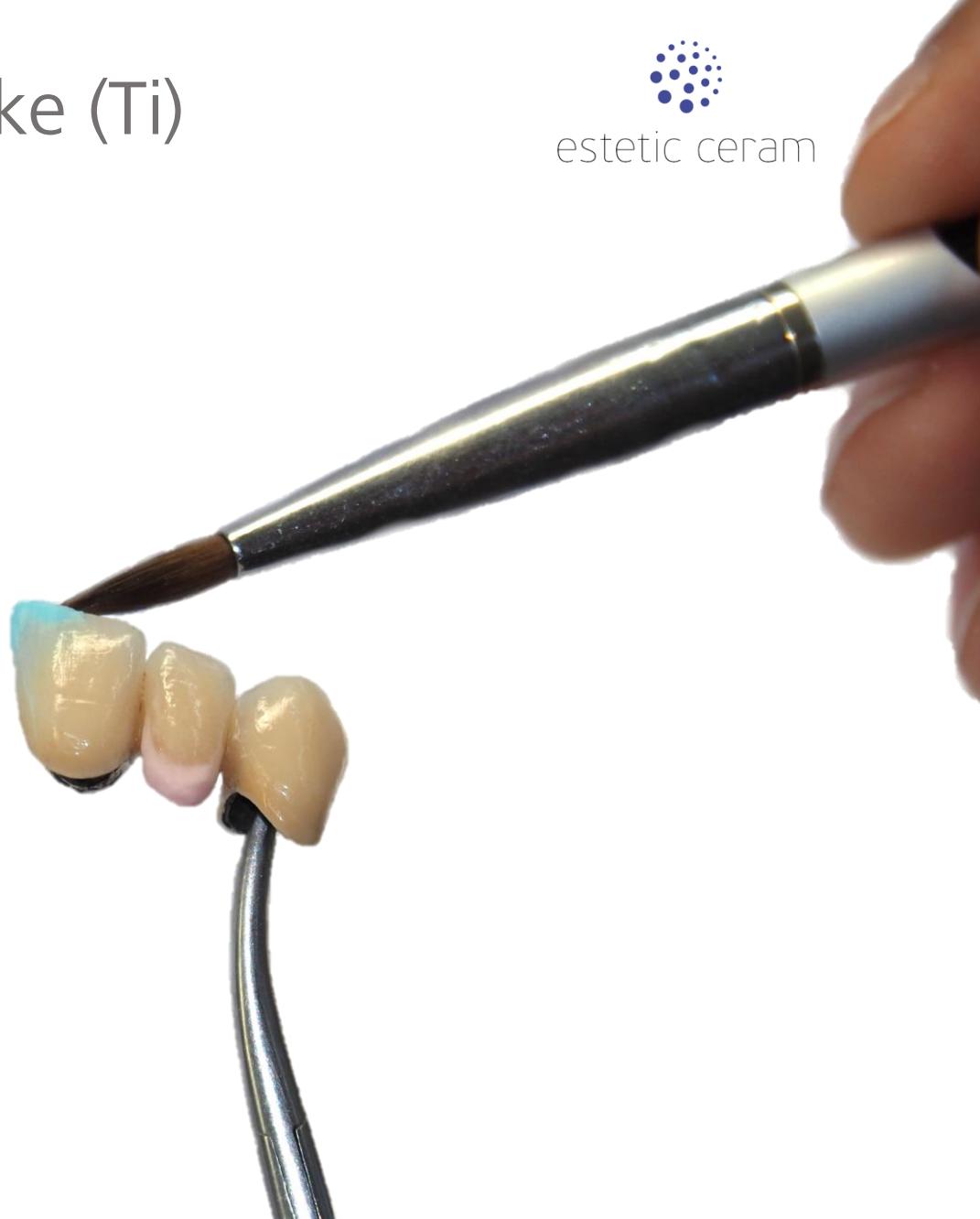
correction
incisal



correction
neutral

If small additions (approximal contacts, apical pontic) are necessary to the restoration after complete finishing, as correction powder in dentine or incisal shading may be applied without altering the result of the layering. Before application clean the crown or bridge.

Mix **zirkon titan correction** powder with **modeling liquid** to a creamy consistency. Apply small portion of porcelain to the desired area of the restoration. After applying the estetic ceram correction powder place the crown on a firing tray and fire according to the firing table (page 34) with the respective program for **zirkon titan correction**.





prepared zirconium oxide framework

Zirconium oxide framework

The fabrication of zirconia framework (CAD, CAM, sintering, surface treatment, cleaning) must be performed according to the manufacturer's instructions. The framework must have a reduced anatomical shape and should provide enough space for an even coating of layering ceramic < 2 mm. Sharp edges and corners need to be rounded off.

zirkon titan Liner Bake (ZrO_2)



Zirconia framework after liner bake

The liners are offered as powder in cans.

Mix the required liner with the special **liner liquid red** to a creamy consistency and apply it on the zirconium oxide frame in a thin layer using a brush or glass instrument.

1st Liner Bake

Once the liner is applied, the crown or bridge is placed on a firing tray in an open furnace for 2 minutes to dry. Subsequently the furnace is closed with a 4 minute closing time (standby temperature 400 °C) and heated at a rate of 60 K/min with vacuum (vacuum starting at 450° C) to 970 °C. Hold time: 1 minute with vacuum.

2nd Liner Bake

When a second liner bake is necessary, due to uneven application of the liner in the first bake, the mixed liner is applied again with a brush or spatula to the defective area and baked like the first time except 10 °C lower.

zirkon titan Margin Bake (ZrO_2)



ZrO_2 cap prepared



ZrO_2 cap after liner bake



ZrO_2 cap before margin bake



ZrO_2 cap after margin bake



Apply a thin layer of **isolation liquid** to the shoulder of the die. Mix the **margin** powder with **modeling liquid L2 (margin)** to a creamy consistency. Apply margin shoulder ceramic mix in small portions and condense by tapping. Then suck off any excess liquid and dry well.

1st Margin Bake

Clean the framework and the layering with steam or water and brush thoroughly before another porcelain application. After the margin application, the crown or bridge is placed on a firing tray at a starting temperature of 400 °C. Subsequently the furnace is closed with a 4 minute closing time and then heated at a rate of 45 K/min with vacuum (vacuum starting at 450 °C) to 800 °C (bake temperature). Hold time: 1 minute without vacuum. After the first bake, place the crown on the die and remove excess materials.

2nd Margin Bake

A second margin application follows where necessary to optimize the fit. 2nd bake see first bake (790 °C).

zirkon titan Dentine/Incisal Bake (ZrO_2)



before dentine bake*



after dentine bake



before incisal bake



after incisal bake

Mix ceramic powder (dentine and/or incisal) with **modeling liquid** to a creamy consistency. Apply dentine or incisal ceramic in small portions to the cervical and interdental area and compact by light vibration. Then more dentine or incisal is applied according to the tooth layering.

1st Dentine/Incisal Bake

After the dentine application the crown is placed on a firing tray at a starting temperature of 400 °C. Subsequently the furnace is closed with a 4 minute closing time and then heated at 45 K/min with vacuum (vacuum starting at 450 °C) to 760 °C (bake temperature). Hold time: 1 minute without vacuum.

For multiple unit bridge with bigger amount of porcelain increase the firing temperature about 20-30 °C. After the first dentine/incisal firing is complete, trim the crown or bridge and clean. Next, apply a second layer of dentine and incisal for the second dentine firing.

2nd Dentine/Incisal Bake

Same procedure as by the first dentine firing, except with a firing temperature of about 10 °C lower than the previous bake. Following dentine bakes at 740 °C.

* Dentine and incisal bake is of course also possible in one go and is common practice.

zirkon titan Glaze Finish/Glaze Firing (ZrO_2)



elaborated for stains/glaze firing



after stains/glaze firing

Glaze Firing

After the stains/glaze application the crown or bridge is placed on a firing tray at a starting temperature of 400 °C. Subsequently the furnace is closed with a 4 minute closing time and then heated at 45 K/min without vacuum to 710 °C (bake temperature). Hold time: 1 minute (without vacuum).

After completely finishing the surface with a diamond instrument, thoroughly clean the crown or bridge.

Apply the **glaze LFU** powder mixed with glaze liquid in a thin layer. For colour characterization, **esthetic ceram shades & stains LFU** can be applied and fired. The **shades & stains LFU** powder are also mixed with **glaze liquid**. Alternatively, the **glaze, shades & stains LFU** are also available as a pre-mixed paste. Before application, the pastes in the container must be mixed well with an agate spatula. Only then remove a small portion and mix it with **glaze liquid** to the desired consistency.

Natural Glaze

Place the crown on a firing tray at a starting temperature of 400 °C. Subsequently close the furnace with a 4 minute closing time and then heat at a rate of 45 K/min with vacuum to 740 °C (bake temperature). Hold time: 1 minute (without vacuum).

zirkon titan Modeling «nature» (ZrO_2)



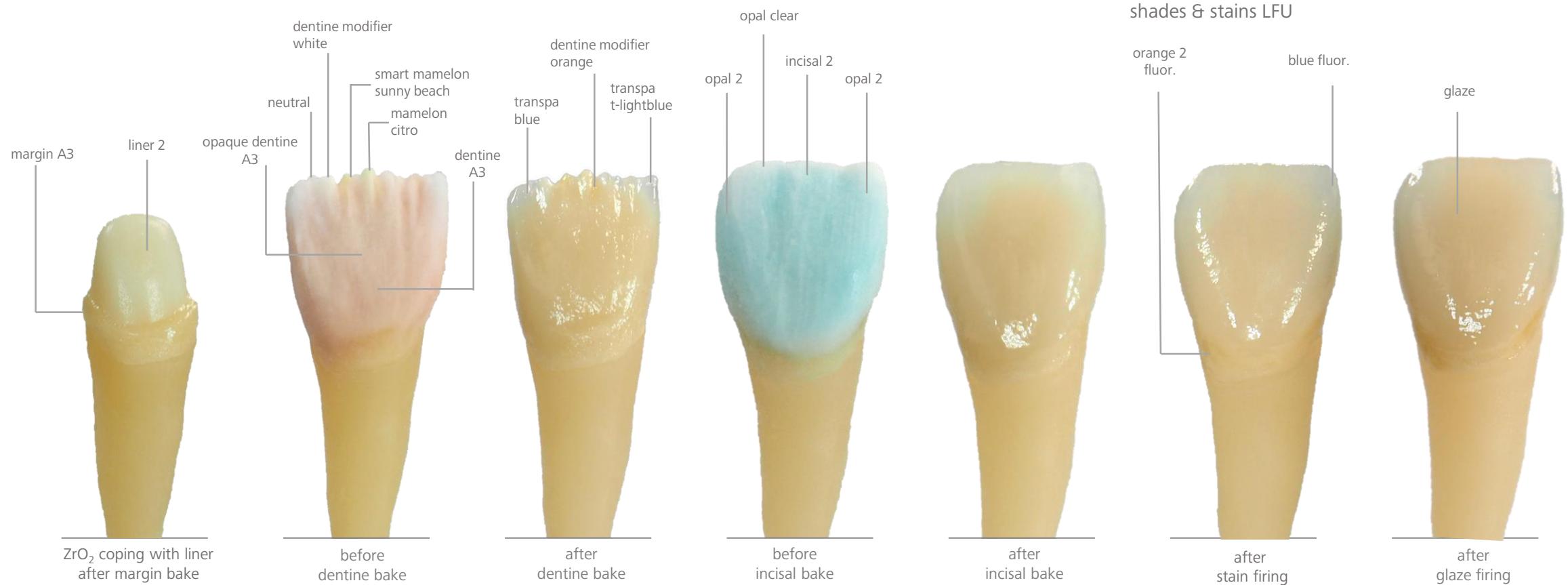
For the simpler «nature» modeling, a thin layer of opaque dentine can be applied after the liner firing to create a depth effect. The tooth body is built up with dentine material, slightly contoured and covered with incisal material. After the dentine/incisal firing is complete, **shades & stains LFU** can be used to highlight the colour aspects of the finished crown that match the tooth colour. The gloss finish can then be made with **glaze LFU**. (Firing table at page 34)

zirkon titan Colour Matching (ZrO_2)


estetic ceram



zirkon titan Modeling «individual» (ZrO_2)



For the «individual» modeling, a thin layer of opaque dentine can be applied after the liner and margin firing for the optical depth effect. Dentine, modifiers, mamelons and various transpa materials are then applied analogously to the internal structure of natural teeth. After the dentine firing, the crown can be completed with various incisal and opal materials and fired. Special colour aspects of the finished crown can be highlighted with **shades & stains LFU**. The crown then gets its gloss finish with **glaze LFU**. (Firing table see page 34)

zirkon titan Monolayer (ZrO_2)



monolayer
M1



monolayer
M2



monolayer
M3

With estetic ceram **zirkon titan monolayer** it is possible to produce all 16 Vita® tooth shades with coordinated transparency and fluorescence simply, quickly and efficiently with just 3 ceramic materials.

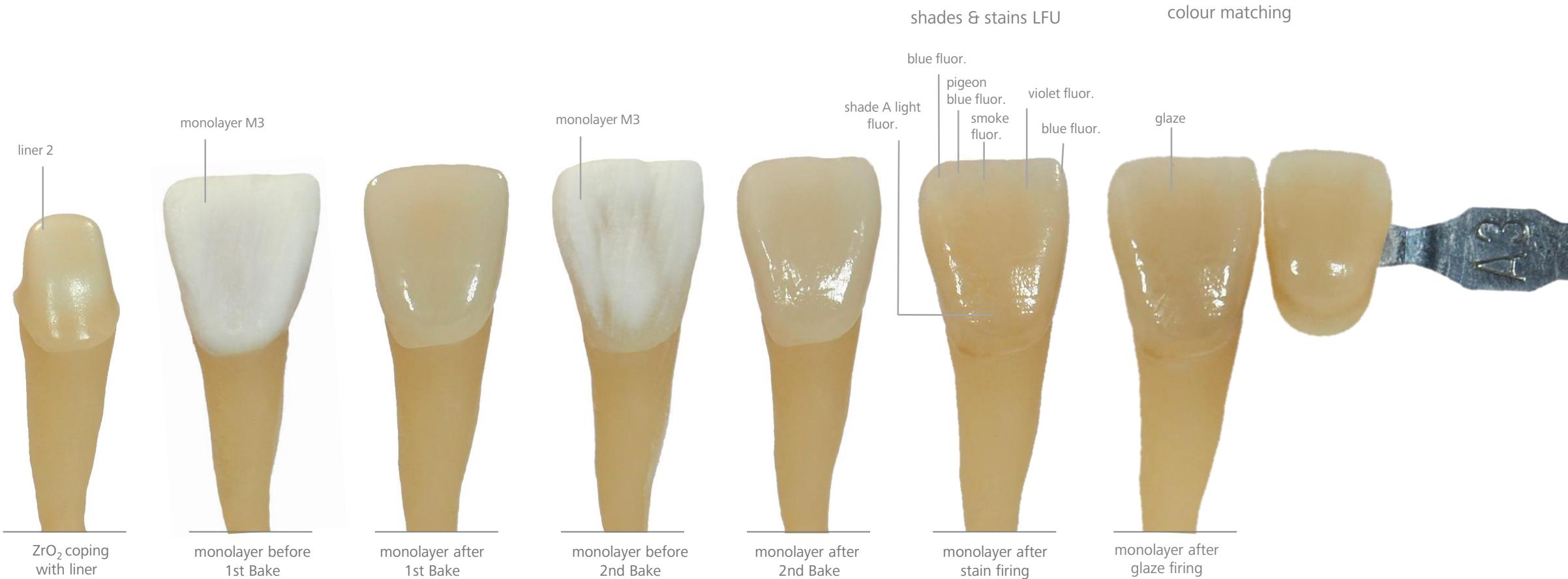
Note: Combination table on page 33.

colour matching



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zirkon titan Monolayer Modeling (ZrO_2)



In order to achieve the tooth shade A3 on this crown, the **zirkon titan monolayer M3** developed for this purpose can be layered on a zirconium coping that was previously fired with zirkon titan liner 2. After firing and finishing the crown, the tooth shade (A3) can be optimally matched to the Vita® * shade guide with estetic ceram **shades & stains LFU**. (see the matching colour assignment of the **shades LFU** in the combination table on page 33). The gloss finish can be achieved with the estetic ceram **glaze LFU**.

zirkon titan Gingiva



Colour overview



The **zirkon titan gingiva** powders are used for reconstruction in the gum area. For this, our gingiva powders can be individually combined with each other, depending on the colour you want. The illustration shows a dental work in which several **zirkon titan gingiva** materials were combined in order to achieve a natural appearance of the gum restoration.



zirkon titan Gingiva


estetic ceram

Colour overview on the model



gingiva 1
bright gingiva 2
middle gingiva 3 gingiva 4
dark gingiva 5
dark orange gingiva 6
violet gingiva 7
light orange gingiva 8
middle orange gingiva 9
orange gingiva 10
rose gingiva 11
bright gingiva 12
dark



gingiva 13
dark pink gingiva 14
brown gingiva 15
violet gingiva 16
brown pink gingiva 17
flamingo gingiva 18
rose orange gingiva 19
dark pink opaque gingiva 20
violet brown gingiva 21
neutral gingiva 22
pink light gingiva 23
intensive red

zirkon titan Correction Bake (ZrO_2)



correction
dentine



correction
incisal



correction
neutral

If small additions (approximal contacts, apical pontic) are necessary to the restoration after complete finishing, as correction powder in dentine or incisal shading may be applied without altering the result of the layering. Before application clean the crown or bridge.

Mix **zirkon titan correction** powder with **modeling liquid** to a creamy consistency. Apply small portion of porcelain to the desired area of the restoration.

After the estetic ceram correction powder application place the crown on a firing tray at a starting temperature.

See firing schedule (page 34).



bridge (ZrO_2) after
correction bake



shades & stains LFU



shades LFU



estetic ceram



shade A light
fluor.



shade B light
fluor.



shade C light
fluor.



shade D light
fluor.



shade A
fluor.



shade B
fluor.



shade C
fluor.



shade D
fluor.



Body colours

Area of application: Body colours for the characteristic colouring of A - D colours.

stains LFU



stains LFU



estetic ceram



white fluor.



snow white fluor.



vanilla fluor.



beige fluor.



yellow fluor.



yellow 2 fluor.



orange fluor.



orange middle fluor.



orange 2 fluor.



champagne fluor.



safari fluor.



safari + fluor.



olive fluor.



khaki fluor.



rose fluor.



rose pink



red purple fluor.



blue rose fluor.



purple fluor.



red



red bright



smoke fluor.



blue fluor.



pigeon blue fluor.



green fluor.



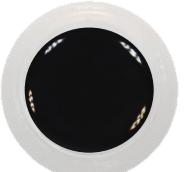
brown fluor.



dark brown fluor.



red brown fluor.



black fluor.



grey fluor.

Effect colours

Area of application: Effect colours for extensive characteristic colouring.

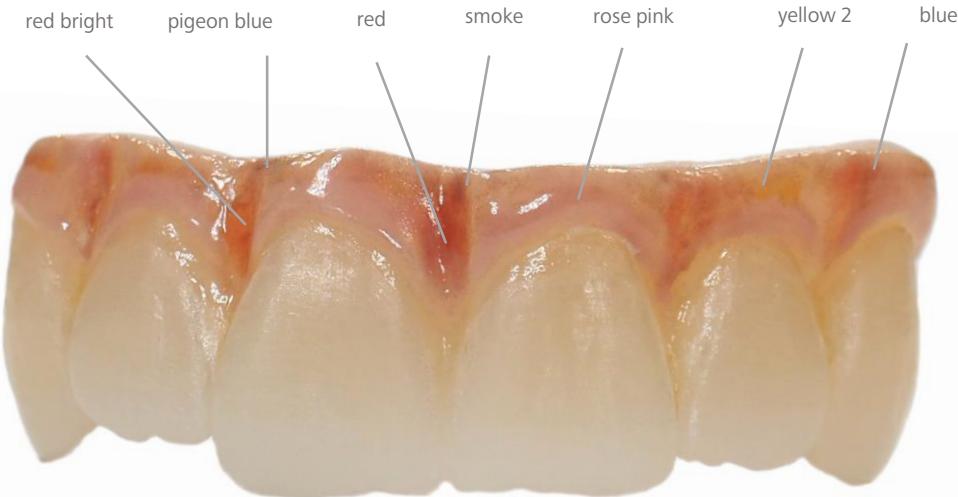
Note: The colours shown are only a selection from our wider range.

stains LFU

Recommendation for the gingival area



estetic ceram



The illustration shows a restoration made of monolithic zirconium oxide, which was individually painted in the gum area with stains LFU for a natural look before the gingival materials were applied.

The listed **stains LFU** without fluorescence are ideal for an individual shade design in the gingival area.



rose

rose pink

red purple

red bright

blue rose

purple

red

smoke

blue

pigeon blue

yellow 2

zirkon titan Combination Table



Combination table	A					B				C				D			
tooth colour	A1	A2	A3	A3,5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4	
titan Opaque (Ti)	A1	A2	A3	A3,5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4	
zirkon Liner (ZrO_2)	1	2	2	2	4	1	1	2	2	1	3	3	4	1	5	5	
zirkon titan margin	A1	A2	A3	A3,5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4	
zirkon titan margin (SM)	1 + 2*	2	2	3 + 4*	4 + 5*	1 + 2*	1 + 3*	3	3 + 5*	1 + 5*	1 + 5*	5	5	2 + 5*	2 + 5*	3 + 5*	
zirkon titan opaque dentine	A1	A2	A3	A3,5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4	
zirkon titan dentine	A1	A2	A3	A3,5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4	
Zirkon titan chroma modifier	A					B				C				D			
zirkon titan incisal	1	2	2	4	4	1	2	3	4	2	2	3	4	1	2	3	
zirkon titan opal incisal	1	2	2	4	4	1	2	3	4	2	2	3	4	1	2	3	
zirkon titan monolayer	M1	M2	M3	M3	M3	M1	M2	M3	M3	M1	M3	M3	M3	M1	M2	M2	
shades LFU	A					B				C				D			
shades LFU (monolayer)**	A light	A light	A light	A light	A	B light	B light	B	B	C light	C light	C	C	D light	D light	D light	

* Margin (SM) mixing ratio 1:1

** The shades LFU colour combinations were specially designed for the colour scheme of the zirkon titan monolayer.

zirkon titan Firing Chart



Note: The given firing temperatures were determined in a Zubler Vario 300 dental furnace and are approximate values. For other furnace types, corrections to the firing temperatures may be necessary.

Firing parameters	Start temperature [°C]	Closing time [min]	Vacuum start [°C]	Heating rate [K/min]	(Vacuum end) 1 st Bake [°C]	(Vacuum end) 2 nd Bake [°C]	(Without vacuum) Holding time [min]
titan opaque (Ti)	400	4	450	55	800	800	2
zirkon liner (ZrO ₂)	400	4	450	60	970	960	1
zirkon titan margin*	400	4	450	45	800	790	1
zirkon titan dentine/incisal*	400	4	450	45	760	750	1
zirkon titan monolayer*	400	4	450	45	760	750	1
zirkon titan natural glaze*	400	4	450	45	740	---	1
LFU glaze/stains*	400	4	---	45	710	---	1
zirkon titan correction	400	4	450	45	720	--	1

Please note: In case of layering on zirconia, retarded opening of the furnace after each bake, is required in general, beginning with margin bake in particular, in case of voluminous layering of ceramic! Firing temperature depends on the number of units in the furnace. More units require up to 20-30 °C higher dentine/incisal firing temperature.

* These firing programs are for titanium (Ti) as well as for zirconium dioxide frameworks (ZrO₂)!

zirkon titan Technical Data



zirkon titan comply to all applicable standards for dental porcelains (DIN EN ISO 6872 / DIN EN ISO 10993-5). All limits are undercut and thresholds are outperformed.

Materials classification						
Material:		Silicate glass ceramics				
Chemical composition:		Major glass ceramic constituents: SiO ₂ , Al ₂ O ₃ , K ₂ O, Na ₂ O, CaO, B ₂ O ₃				
Physical-chemical properties acc. to DIN EN ISO 6872:2019						
Type:	1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/>	Class:	1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>	a <input type="checkbox"/> b <input checked="" type="checkbox"/> c <input type="checkbox"/>		
Physical-chemical properties acc. to DIN EN ISO 6872						
Property	Spezification dentine, incisal	Spezification margin	Spezification zirkon liner	Spezification titan opaque	Spezification zr/ti correction (25 - 450 °C) [-10-6·K-1]	
Coefficient of thermal expansion (25 - 500 °C) [-10 ⁻⁶ ·K ⁻¹ ± 0.5]	2 x: 8.5 ± 0.5 4 x: 8.5 ± 0.5	2 x: 9.0 ± 0.5 4 x: 9.0 ± 0.5	2 x: 9.4 ± 0.5 4 x: 9.4 ± 0.5	2 x: 9.0 ± 0.5 4 x: 9.0 ± 0.5	2 x: 8.5 ± 0.5 4 x: 8.5 ± 0.5	
Transformation temperature Tg [°C ± 20]	2 x: 520 ± 20 4 x: 520 ± 20	2 x: 530 ± 20 4 x: 530 ± 20	2 x: 635 ± 20 4 x: 635 ± 20	2 x: 560 ± 20 4 x: 560 ± 20	2 x: 490 ± 20 4 x: 490 ± 20	
Bending strength [MPa]	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50	≥ 50
Solubility [µg/cm ²]	< 100	< 100	< 100	< 100	< 100	< 100

zirkon titan Regulatory Information



zirkon titan meet all requirements of applicable directives and regulations for medical devices. The manufacturing complies to a certified Quality Management System acc. ISO 13485, annex 2 of Medical Device Directive 93/42, annex IX, Chapter 1 of regulation (EU) 2017/745 and further international requirements.

Medical device classification acc. annex IX, rule 8 of MDD 93/42:

IIa

Medical device classification acc. annex VIII, rule 8 of MDR 2017/745

IIa

UMDNS Code:

16-187 Dental-ceramics

MDR Code acc. MDCG 2019-14:

MDT 2003, MDN 1103

Classification acc. DIN EN ISO 6872:

type 1, class 1

zirkon titan

Warnings

Use only by trained specialists.

Wear protective goggles or suitable face protection when finishing the ceramic restorations. Remove splinters and dust with a suction device or wear a suitable dust mask.



Be careful with the high temperatures when burning. There is a risk of burns! Use oven tongs / tweezers and gloves!

Use only in a clean work environment! Contamination of the aids (waxes) and devices (mixing plate, preheating furnace) through residues from alloy processing, especially CoCr or NiCr alloys, can lead to discoloration of the ceramic.

The framework or framework that has already been veneered must be cleaned thoroughly with steam or under running water with a brush before each ceramic application.

There are different firing conditions due to the different ceramic furnaces on the market. This fact must be taken into account and clarified by the customer on his own responsibility!

The specified firing temperatures are only guide values!

Recommended storage conditions: 12-38 °C and normal humidity 40-60%. Store in tightly closed original containers. Protect from direct sunlight. Do not put mixed powders back into the can. Use clean, dry instruments for removal.



estetic ceram

Label Symbols



Manufacturer



Date of manufacture YYYY MM



Medical Device



Batch code /LOT number



Reference number



Unique Device Identification



Caution, consult instruction for use

Manufacturer Information

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