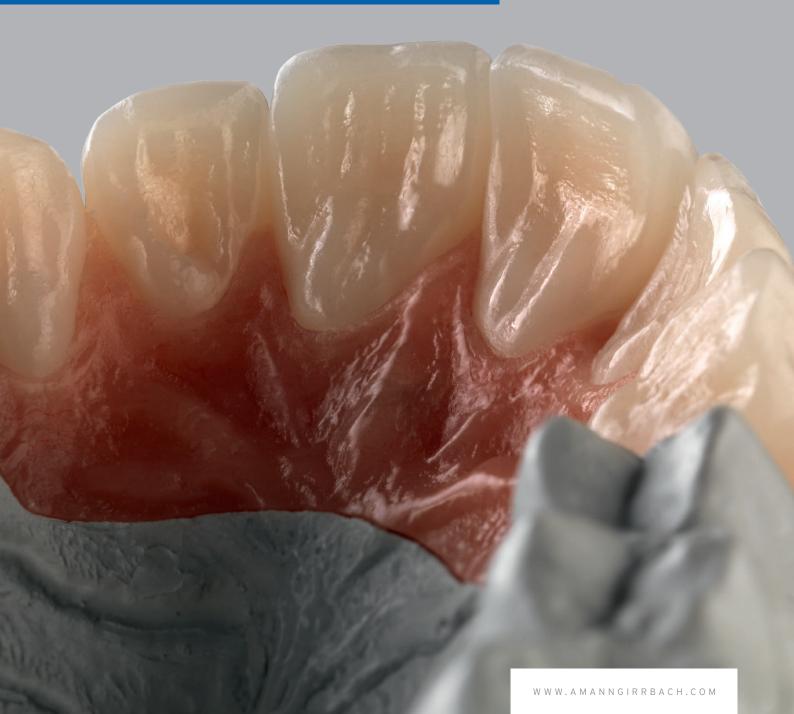


STAINING TECHNIQUE

≈ceramill[®] zirconia



ZIRCONIA FOR ALL REQUIREMENTS

Zirconia is enjoying great popularity thanks to its impressive technical and optical properties. Its versatility and excellent biocompatibility make the high-performance ceramic the first choice for high-quality restorations with high aesthetic requirements. With the zirconia blanks bearing the Ceramill brand name Amann Girrbach provides the correct material for every zirconia-based indication to fabricate restorations with long-term stability and natural aesthetics economically and efficiently.



LOW TRANSLUCENCY





HIGH TRANSLUCENCY

≈ceramill® zolid

MULTILAYER

(with natural tooth shade gradient)

PRESHADE

(pre-stained)



Ceramill Zolid Preshades

WHITE (white)



Ceramill ZI White



Ceramill Zolid White



Ceramill Liquid CL



Ceramill Liquid "New Formula"

TRANSLUCENCY →



HIGH TRANSLUCENCY **≈cera**mill® zolid ht+



SUPER HIGH TRANSLUCENCY

≅ceramill® zolid fx



Ceramill Zolid FX Multilayer



Ceramill Zolid HT+ Preshades*



Ceramill Zolid FX Preshades



Ceramill Zolid HT+ White



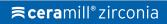
Ceramill Zolid FX White



Ceramill Liquid "New Formula"



Ceramill Liquid FX



AESTHETIC MANAGEMENT AND PROCESSING

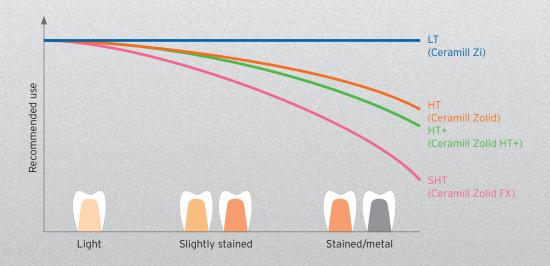
The optimum zirconia for an indication is based on very different factors. Aesthetic requirements, position of the restoration intraorally or the prepared tooth shade decisively influence the choice of material.

The more accurately the prepared tooth shade and indication are matched the more predictable and aesthetically precise the result can be achieved.

Prepared tooth shade Translucency		Product	Processing					
			Brush/ immersion technique	Staining technique	Cut-back technique	Build-up technique		
Light		Ceramill Zolid FX Multilayer		0	0			
	SHT	Ceramill Zolid FX Preshades		0	0	0		
V V		Ceramill Zolid FX White	0	0	0	0		
Light-slightly stained		Ceramill Zolid HT+ White	0	0	0	0		
	нт	Ceramill Zolid Preshades		0	0	0		
		Ceramill Zolid White	0	0	0	0		
Light-stained/ metal								
	LT	Ceramill ZI White	Ο			0		

	Indication										
Veneer	Veneer Inlay Onlay		Anterior and posterior crown	3-unit bridge (incl. molar region)	Multi-unit bridge	Hybrid abutment	Hybrid abutment crown				
0	0	0	0	0			0				
0	0	0	0	0			0				
0	0	0	0	0			0				
			0	0	0	0	0				
			0	0	0	0	0				
			0	0	0	0	0				
			0	0	0	0	0				

RECOMMENDED USE OF CERAMILL ZIRCONIA IN RELATION TO PREPARED TOOTH SHADE AND DEGREE OF TRANSLUCENCY



ACCURATE SHADE RESULTS. FASTETIX AND AFSTHETIX - STAINING WITH LIQUIDS MADE FASY

Amann Girrbach provides tailored solutions for customising zirconia restorations before the sintering process with a wide range of colouring solutions and corresponding processing techniques. A wide range of A-D liquids, shade modifiers and aids such as Ceramill Liquid Eye and Ceramill Dimmer ideally complement the portfolio.

The "Fasthetix" and "Aesthetix" staining concepts describe two different approaches for aesthetic, economic customisation of Ceramill zirconia restorations.

-(·)

FASTHETIX - QUICK-STAINING TECHNIQUE

Efficiency and economy are gaining ever-increasing importance today. The "Fasthetix concept" enables aesthetic Ceramill zirconia restorations with shade gradient to be fabricated in a few seconds using only one liquid set "Ceramill Liquid new formula". The uncomplicated Fasthetix method provides the perfect introduction to the world of Ceramill zirconia.



- _Highly aesthetic, natural appearance in less than 20 seconds
- _A liquid set for Ceramill Zolid White, Zolid HT+ White and Ceramill Zolid FX White
- _High efficiency with guaranteed shade stability

+

AESTHETIX - HIGHLY AESTHETIC CUSTOMISATION

In addition to the dentine liquids specifically developed for each translucency stage and special colour shades for customisation, the "Aesthetix concept" offers mature immersion and brush techniques. Diverse yet clearly designed, "Aesthetix" enables every aesthetic requirement to be met. The result is highly aesthetic restorations that are virtually indistinguishable from natural teeth.









- _Premium aesthetic and highest degree of customisation
- Material specific liquids for every type of zirconia and perfect shade match
- _Shade modifier liquids for even greater customisation



≈ceramill®zolid white

≅ceramill®zolid ht+ white

≈ ceramill®zolid fx white



QUICK-STAINING TECHNIQUE

FASTHETIX - QUICK-STAINING TECHNIQUE USING CERAMILL LIQUIDS

Ceramill Zolid White, Ceramill Zolid HT+ White, Ceramill Zolid FX White



FASTHETIX

FASTHETIX BASIC

Fill Ceramill Dimmer Liquid in a container. The lightened area can be used as a guide to the filling level.



Immerse the restoration in the Ceramill Dimmer Liquid for approx. 5 seconds (occlusal surface should face downwards). Then dab off the excess liquid.



FASTHETIX ADVANCED

COMBINATION OF BRUSH AND IMMERSION TECHNIQUE



Mix Ceramill Dimmer Liquid with a few drops of Ceramill Liquid Eye



Apply Ceramill Dimmer Liquid in the occlusal region to customise the lightness area



Immerse the restoration for 10-60 sec. in the required Ceramill Liquid A-D (immersion times see Page 9). Then dab off the excess liquid

SINTERING (see Page 14)

FINISHING (SEE PAGE 15)



QUICK-STAINING TECHNIQUE

FASTHETIX - SHADE COMBINATION CHART INCLUDING IMMERSION TIMES (BASIC, ADVANCED)

Ceramill Zolid White, Ceramill Zolid HT+ White, Ceramill Zolid FX White



Ceramill Zolid White

VITA tooth shade	Ceramill Liquids "new formula"	Immersion time
A1	A1	10-20 sec.
A2	A2	10-20 sec.
А3	А3	10-20 sec.
A3.5	A3.5	10-20 sec.
A4	A4	10-20 sec.*
B1	B1	10-20 sec.
B2	B2	10-20 sec.
В3	В3	10-20 sec.
B4	B4	10-20 sec.*
C1	C1	10-20 sec.
C2	C2	10-20 sec.
C3	C3	10-20 sec.
C4	C4	10-20 sec.*
D2	D2	10-20 sec.
D3	D3	10-20 sec.
D4	D4	10-20 sec.*

^{*} Double the immersion time for Zolid HT+ White





Ceramill Zolid FX White, Zolid HT+ White,

VITA tooth shade	Ceramill Liquids "new formula"	Immersion time
A1	A2	10-20 sec.
A2	A3	10-20 sec.
A3	A3.5	10-20 sec.
A3.5	A4	10-20 sec.
A4	A4	45-60 sec.
B1	B2	10-20 sec.
B2	В3	10-20 sec.
В3	B4	10-20 sec.
B4	B4	45-60 sec.
C1	C2	10-20 sec.
C2	C3	10-20 sec.
C3	C4	10-20 sec.
C4	C4	45-60 sec.
D2	D3	10-20 sec.
D3	D4	10-20 sec.
D4	D4	45-60 sec.





≅ ceramill®zi white

≈ ceramill®zolid white

≈ ceramill®zolid ht+ white

≈ceramill®zolid fx white

HIGHLY AESTHETIC CUSTOMISATION

AESTHETIX - HIGHLY AESTHETIC CUSTOMISATION USING CERAMILL LIQUIDS

Ceramill ZI White, Ceramill Zolid White, Ceramill Zolid HT+ White, Ceramill Zolid FX White



AESTHETIX

AESTHETIX BASIC

Immerse the restoration in the corresponding Ceramill Liquid. Mixing ratios and immersions times see Page 13



AESTHETIX ADVANCED



Incisal regions with shade modifiers, e.g. grey/blue for increased depth effect



Fissures and interdental regions in, e.g. brown/orange for increased chroma



Body regions in A-D Liquids

SINTERING (see Page 14)

FINISHING (see Page 15)



HIGHLY AESTHETIC CUSTOMISATION

AESTHETIX BASIC IMMERSION TECHNIQUE - SHADE COMBINATION CHARTS

MATERIAL		PROCESSING						
Ceramill Zirconia	Ceramill Liquid	Dentine shade	Framework thickness	Recommended mixing ratio	Immersion time			
Ceramill Zolid FX White	Ceramill Liquid FX	A-D Liquids	Independent of wall thickness	90 % A-D Liquids FX + 10 % Dimmer	10 sec.			
Ceramill Zolid White	Ceramill Liquid "new formula"	A-D Liquids	Independent of wall thickness	75 % A-D Liquids "new formula" + 25 % Dimmer	10 sec.			
Ceramill Zolid HT+ White	Ceramill Liquid "new formula"	A-D Liquids	Independent of wall thickness	100 % A-D Liquids "new formula"	10 sec.*			
Ceramill ZI White	Ceramill Liquid "new formula"	A-D Liquids	Independent of wall thickness	100 % A-D Liquids "new formula"	10 sec.			
COMMENTAL	Ceramill Liquid CL 1-4	CL1-CL4 Liquids		See instructions for use	See instructions for use			

^{*} Doubling the immersion time is recommended for dark shades (A4, B4, C4, D4).

AESTHETIX ADVANCED - SHADE COMBINATION CHARTS

MATERIAL		PROCESSING						
Ceramill Zirconia	Ceramill Liquid	Shade modifier and dentine shade	Framework thickness	Recommended mixing ratio	Number of brush applications			
Ceramill Zolid FX White	Ceramill Liquid FX	Orange		20% orange + 80% Dimmer				
Recaminated to		Grey	Independent of wall	50% grey + 50% Dimmer	Individual (e.g. 1-2x)			
		Violet	thickness	100% violet				
		Blue		100% blue				
		A D Limite	0.6-0.8 mm	1000/ A D Linuida EV	3x inside + 3x outside*			
		A-D Liquids	1.1-1.2 mm	100% A-D Liquids FX	5x inside + 5x outside*			

To be observed for Ceramill Zolid HT+:

Increase the number of brush applications for A-D liquids by 3 or double respectively.

MATERIAL		PROCESSING						
Ceramill Zirconia Ceramill Liquid		Shade modifier and dentine shade thickness		Recommended mixing ratio	Number of brush applications			
Ceramill Zolid White	Ceramill Liquid "new formula"	Orange	Independent	20% orange + 80% Dimmer	Individual (e.g. 1-2x)			
(() direct Elector		Grey	of wall thickness	50% grey + 50% Dimmer				
Ceramill Zolid HT+ White		Violet		100% violet				
REMOTE THE COLLEGE OF		A D Liquida	0.6-0.8 mm	100% A-D Liquids new	3x inside + 3x outside*			
		A-D Liquids	1.1-1.2 mm	formula	5x inside + 5x outside*			

After brush application of shade modifier and dentine shade, it is recommend to re-immerse the entire restoration in a Dimmer/dentine mixture to achieve a homogeneous shade gradient from cervical to incisal. The following concentration can be selected as a guideline: shade homogenising: 40% Ceramill Zolid FX:

40 % A-D Liquid FX + 60 % Dimmer Liquid

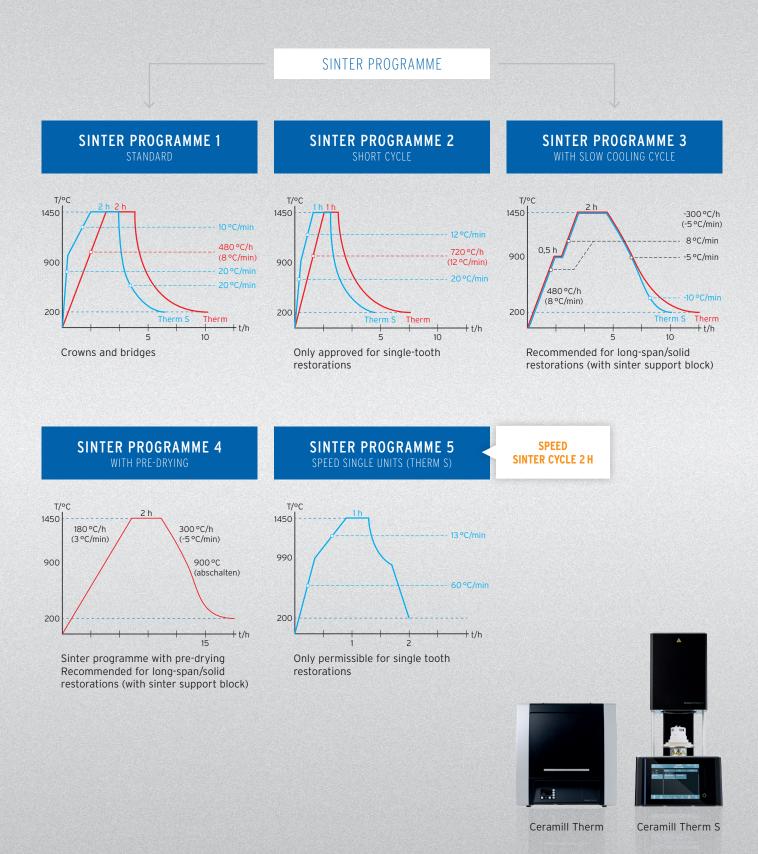
Ceramill Zolid/Ceramill Zolid HT+: 30 % A-D Liquid "new formula" + 70 % Dimmer Liquid

^{*} If crowns are to be immersed after brush application, apply 1 brush cycle fewer

SINTERING OF CERAMILL ZIRCONIA

Sintering of zirconia is one of the most important steps in the fabrication of dental restorations. The porous pre-sintered coping condenses under the influence of high temperatures and the blank attains its final, proven mechanical (strength) and optical (translucency) properties. The standard, material-protecting sintering temperature of 1450°C ensures an efficient process. This allows Ceramill ZI, Zolid, Zolid HT+ white or Zolid FX to be sintered together in one furnace.

Optimum results are achieved using Ceramill Therm and Therma S high-temperature furnaces from Amann Girrbach. These are fully coordinated to Ceramill Zirconia, thus achieving the best possible material properties.

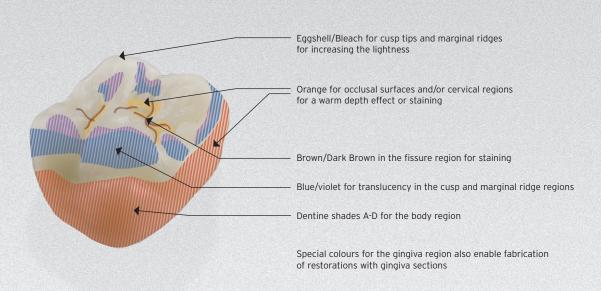


FINISHING WITH THE STAINING TECHNIQUE

FINAL CUSTOMATION USING STAINS AND GLAZE PORCELAINS.

Ceramill zirconia restorations can be given the final aesthetic touches after the sintering process using stains and glaze porcelains. Applying highlights is sufficient with infiltrated restorations and Ceramill Zolid FX Multilayer restorations in A-D shades. Pre-stained, monochromatic Ceramill Zolid/Zolid FX Preshade restorations must be given the final touches using Body stains to achieve the definitive tooth shade.

STAINING TECHNIQUE



SHADE COMBINATION CHARTS STAIN AND GLAZING TECHNIQUE FOR CERAMILL ZOLID FX PRESHADES, ZOLID PRESHADES



Ceramill Zolid FX Preshade:

				Too	th sha	de			
Blank shade	Bleach	A1	A2	А3	A3,5	B1	B2	В3	B4
Ceramill Zolid FX Preshade Bleach	•	-	-	-	-	-	-	-	-
Ceramill Zolid FX Preshade A Light	-	•	•	0		-	-	-	-
Ceramill Zolid FX Preshade A medium	-	-	•	•	0	-	-	-	_
Ceramill Zolid FX Preshade B Light	-	-	-	-	_	•	•	0	-
Blank shade	C1	C2	С3	C4	D2	D3	D4		
Ceramill Zolid FX Preshade C Light	•	•	0	-	-	-	-		
Ceramill Zolid FX Preshade D Light	2	-	-	-	•	•	-		



Ceramill Zolid Preshade:

	Tooth shade								
Blank shade	Bleach	A1	A2	А3	A3,5	B1	B2	В3	
Ceramill Zolid Preshade 0 (Preshade Bleach)	•	-	-	-		_	_	-	
Ceramill Zolid Preshade 2 (A light)	-	•	•	0	-	-	-	-	
Ceramill Zolid Preshade 3 (A medium)	-	1	•	•	0	_	-	0	
Ceramill Zolid Preshade 1 (B light)	_	0	0	-	-	•	•	-	

[●] Ideal for this shade ○ Shade can be achieved - unsuitable for this shade



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