

CERABIEN Milai

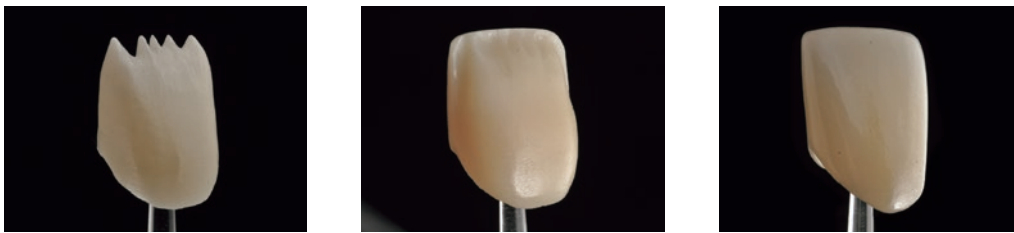
LOW-FUSING PORCELAINS AND INTERNAL STAINS
FOR ZIRCONIA AND LITHIUM DISILICATE DENTAL RESTORATIONS

TECHNICAL GUIDE



OUTSTANDING ESTHETICS AT THE FIRST GO

CERABIEN™ MiLai is a set of porcelains and internal stains specifically designed for the micro-layering technique. The name “MiLai” is derived from the term “micro-layering” and the Japanese word “mirai” (which means future). The innovative product based on synthetic feldspar enables dental technicians to add the final touch to their zirconia or lithium disilicate restorations in a simple and time-saving procedure for outstanding esthetics right from the start.



Various cut-back frames. Photos: courtesy of MDT Daniele Rondoni

FEATURES & BENEFITS

- 1 MULTIPLE FRAMEWORK OPTIONS**
Suitable for framework materials based on both oxide (zirconia) and silicate ceramics (lithium disilicate)*, reducing the need for multiple ceramic systems.
- 2 LOW-TEMPERATURE FIRING**
Supporting compatibility with a broad range of restorative materials and laboratory workflows as well as the optical properties of the framework materials and long-term stability of the restorations.
- 3 EFFICIENT FINISHING PROCEDURES**
Porcelain system designed for micro-layering, helping simplify daily workflows, reduce time and minimise inventory.
- 4 CONSISTENT HANDLING AND PERFORMANCE**
Due to the use of synthetic feldspar porcelain, offering predictable handling characteristics and excellent mechanical properties, even after multiple firings.

*The material should have CTE value within $9.5\sim 11.0\times 10^{-6}/K$ (50~500 °C)



OVERVIEW

ZIRCONIA

LITHIUM DISILICATE*

*The material should have CTE within $9.5-11.0 \times 10^{-6}/K$ (50-500 °C)

PREPARATION* (page 5)

*To use CERABIEN™ MiLai porcelains with KATANA™ Zirconia, see page 6 for detailed procedure. For zirconia materials other than KATANA™ Zirconia, please refer to the Instructions for Use supplied with that product.

*To use CERABIEN™ MiLai porcelains with lithium disilicate materials, refer to the Instructions for Use supplied with that product.



APPLICATION OF A WASH AND BAKING* (page 6)

*Value Liner is available for controlling the value of the restoration. When using Value Liner, proceed wash baking with Value Liner following step 1 on page 8.



APPLICATION OF INTERNAL STAIN* (page 6)



BUILDING-UP OF OPACIOUS BODY OR BODY AND BAKING*



BUILDING-UP OF TRANSLUCENT OR LUSTER AND BAKING* (page 6)



MORPHOLOGICAL CORRECTION* (page 7)



APPLICATION OF GLAZE AND STAIN, BAKING AND FINISHING* (page 7)

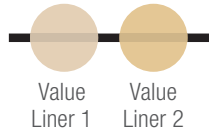


COMPLETED!

COLOUR COMBINATION TABLE

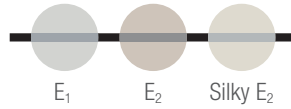
VALUE LINER

10 g / 50 g



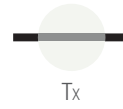
ENAMEL

10 g / 50 g



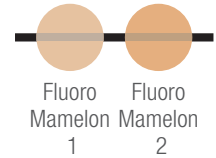
TRANSLUCENT

10 g / 50 g



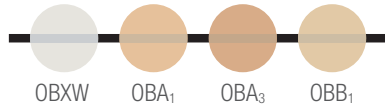
MAMELON

10 g / 50 g



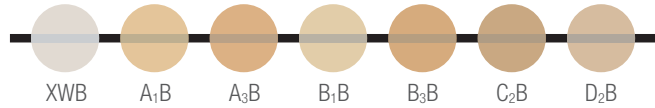
OPACIOUS BODY

10 g / 50 g



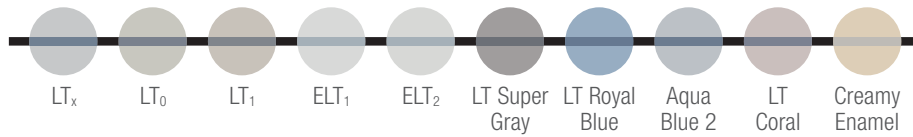
BODY

10 g / 50 g



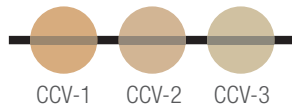
LUSTER

10 g / 50 g



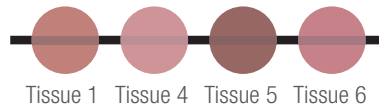
CLEAR CERVICAL

10 g / 50 g



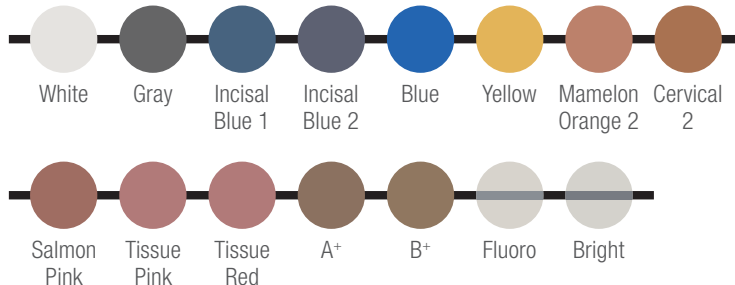
TISSUE

10 g / 50 g



INTERNAL STAIN

3 g



PREPARATION FOR BUILDING-UP CERABIEN™ MiLai PORCELAIN

Condition the zirconia surface by following steps (1) and (2) given below, if you are using KATANA™ Zirconia. If you are using a dental ceramic milling block other than KATANA™ Zirconia, or a lithium disilicate, pretreat its surface by following the Instructions for Use supplied with that product.

1 CONDITIONING THE ZIRCONIA FRAMEWORK SURFACE



Check the fit on the plaster model between the framework and the abutment at the inner surface, margins, etc.
Check whether there is enough space for building up a porcelain layer; ensure the framework is suitably thick. Grind the entire restoration using a diamond bur or a silicone point containing diamond particles.
Make sure that the restoration is thoroughly wet while working on it. Spray with water if necessary.

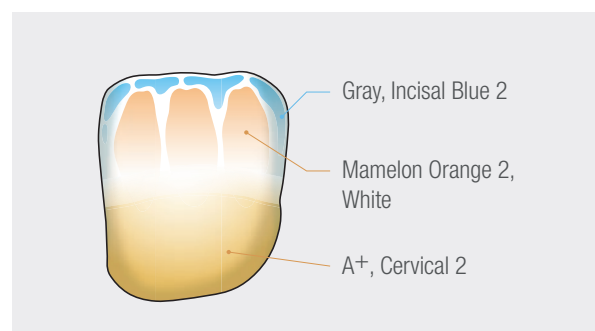
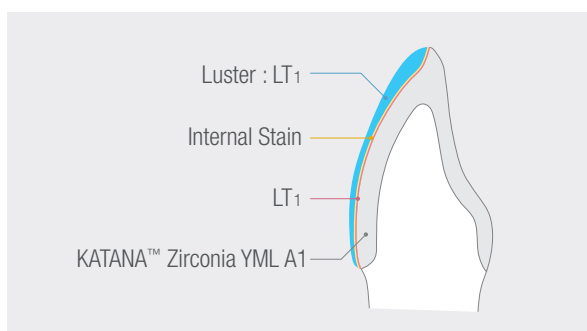
You can perform detailed anatomical carving (mamelon structure, margins) depending on the need. Grind the areas which come in contact with the opposing teeth. Check for any cracks after completion.

2 SANDBLASTING AND CLEANING



Sandblast the restoration surface at 0.2 MPa or less with 50 µm alumina particles, to allow the porcelain to bond well to the framework.
Follow with ultrasonic cleaning using either acetone or alcohol for approximately 10 minutes. When sandblasting the restoration, exclude the areas which come in contact with the opposing teeth.

EXAMPLE OF BUILDING-UP CERABIEN™ MiLai ON A ZIRCONIA FRAMEWORK



- The above image is only an example. Please select appropriate shades of porcelains or Internal Stains depending on your target shade.
- If you want to dilute the chroma of the Internal Stain, mix it with Bright.

RESTORATION

USING A ZIRCONIA FRAMEWORK

1 APPLICATION OF A WASH AND BAKING



To improve the bond strength of porcelain to the zirconia, apply a thin layer of CERABIEN™ MiLai (LTx is used in the photo) over the zirconia framework. Bake the restoration according to the baking schedule ("Wash Bake") at the end of the Technical Guide.

ATTENTION:

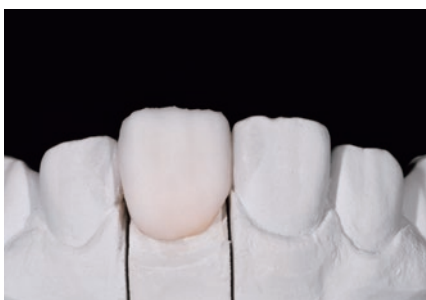
In case there is not enough space for building-up porcelains, Internal Stain can be used for wash baking. When using Internal Stain for wash baking, be sure to cover the entire surface of the restoration with Internal Stain. Bake the restoration according to the baking schedule ("Wash Bake") at the end of the Technical Guide.

2 APPLICATION OF INTERNAL STAIN (OPTIONAL)



Apply Internal Stain to adjust the colour of the restoration, as necessary. Bake the restoration according to the baking schedule ("Internal Stain") at the end of the Technical Guide.

3 BUILDING-UP OF TRANSLUCENT OR LUSTER AND BAKING



Apply Translucent or Luster (and Clear Cervical, if needed) to the crown surface, making the crown slightly larger than its target size. This will allow for any shrinkage caused by baking.

Bake the restoration according to the baking schedule ("Translucent," "Luster," or "Clear Cervical") at the end of the Technical Guide once you finish building-up the porcelain.

The porcelain surface of the restoration should have a slight luster after baking.

Adjustments for any thin spots, hollows, etc. can be made by adding porcelain and re-baking.

In instances where a small amount of porcelain needs to be added to the contact area, the highest baking temperature should be approximately 10 degrees lower than the one given in the baking schedule.

ATTENTION:

The maximum thickness of CERABIEN™ MiLai porcelain layer should be the same as or less than the thickness of the framework.



4 MORPHOLOGICAL CORRECTION

Start making the morphological corrections from the proximal area.

Create the labial groove with the tip part of a diamond bur. Proceed by extending it first in a vertical direction, then in a horizontal direction. Use the small head of a diamond bur to create the serration and the natural tiny grooves.

Polish away any roughness, especially in the proximal and marginal areas.

Clean the surface, as necessary, after completing the morphological correction.

5 APPLICATION OF GLAZE AND STAIN, BAKING AND FINISHING

Reproduce the appropriate gloss by self-glaze or by using CERABIEN™ ZR FC Paste Stain referring to the following methods:

Reproducing gloss by self-glaze

Using polishing material for semi-finishing, perform fine-polishing then bake the restoration according to the baking schedule ("Self Glaze") at the end of the Technical Guide.

Reproducing gloss using CERABIEN™ ZR FC Paste Stain Glaze or Clear Glaze

Apply a thin coat of CERABIEN™ ZR FC Paste Stain Glaze or Clear Glaze.

Bake the restoration according to the baking schedule of CERABIEN™ ZR FC Paste Stain. If the shade needs to be adjusted, different shades of CERABIEN™ ZR FC Paste Stain may be mixed.

6 COMPLETION



Final view of the restoration

RESTORATION

USING A LITHIUM DISILICATE* FRAMEWORK

PREPARATION When using lithium disilicate, pretreat the surface by following the Instructions for Use supplied with that product.

1 BUILDING-UP OF VALUE LINER AND BAKING

- Due to its translucency, the value of lithium disilicate restoration may be lower compared to that of zirconia restoration when setting it in the mouth.
- CERABIEN™ MiLai comes with Value Liner, which adds opacity and control the decrease in brightness of the frame.
- If there is no need to control the value of the restoration, use Translucent or LT1 following page 6.



FIRST LAYER

Apply a thin layer of CERABIEN™ MiLai Value Liner over the framework. Bake the restoration according to the baking schedule ("Wash Bake") at the end of the Technical Guide.



SECOND LAYER

Apply a second layer of Value Liner if necessary. Bake the restoration according to the baking schedule ("Porcelain") at the end of the Technical Guide.

ATTENTION: CERABIEN™ MiLai is designed for micro-layering. Please keep in mind that each layer should be thin. Building up a Value Liner layer that is too thick may affect the esthetics of the restoration.

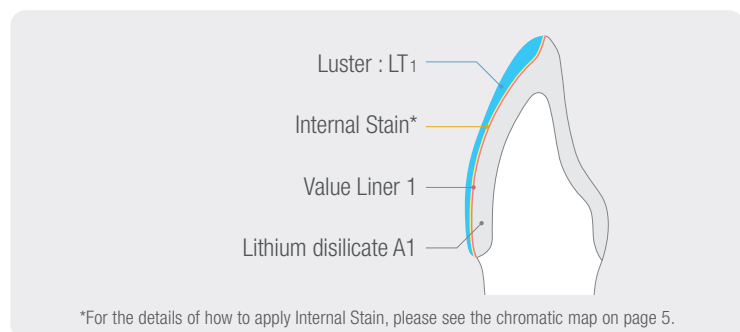
- After building-up Value Liner layers, continue the procedure from step 2 on page 6.



COMPLETION

Final view of the restoration.

Example of building-up CERABIEN™ MiLai on a lithium disilicate framework



- The above image is only an example. Please select appropriate shades of porcelains or Internal Stains depending on your target shade.
- If you need to add opacity and control the decrease in brightness of the frame further after wash baking using Value Liner, apply an additional coat of Value Liner and bake again.

*The material should have CTE within $9.5-11.0 \times 10^{-6}/K$ (50-500 °C)

CAUTION FOR USE

CONTRAINDICATIONS:

If the patient is hypersensitive to potassium-aluminosilicate glass or any other components, this product must not be used.

CAUTION AND WARNING

1. This product should not be used when malocclusion, clenching or bruxism conditions are present.
2. If the patient or the dental professional demonstrates a hypersensitivity reaction, such as a rash, dermatitis, etc., discontinue use of the product and seek medical attention immediately.
3. When mixing materials, or grinding a restoration being fabricated, use an approved dust mask and vacuum with an air filter to protect your lungs from inhaling either dust or liquid.
4. When mixing materials or grinding a restoration being fabricated, use safety glasses to prevent dust or liquid from getting into your eyes. If dust or liquid gets into your eyes, immediately rinse with copious amounts of water and seek medical attention.
5. Do not use for any purposes except for fabricating dental restorations. This product is for dental application only.
6. The use of this product is restricted to dental professionals.
7. The restoration is very hot immediately after baking. Do not touch it with your bare hands for a considerable amount of time after removing it from the furnace.
8. IS LIQUID is flammable. Do not use near fire or high-temperature objects.
9. IS LIQUID is a stimulant liquid. When using it, ensure good ventilation and if necessary, wear a protective mask, safety glasses and gloves.
10. Stains and plaque can accumulate on a restoration after it has been placed in the patient's oral cavity, depending on the patient's eating habits or food choices. Instruct patients about the importance of cleaning their restorations.

PRECAUTIONS IN USE

1. Do not mix with other dental porcelains at any stage of the clinical procedure.
2. Porcelain furnace temperature variations may be significant in the lower ranges. Determine the exact baking schedule by making a preliminary test before baking an actual case restoration.
3. The correct baking temperature for this product varies with the size of the restorations to be baked. Adjust the furnace's baking temperature according to the baking schedule.
4. Internal Stain should be mixed using the specified liquid. (Use of liquids other than those specified may result in a darker restoration colour than desired, after baking.)
5. This product is a low-temperature baking porcelain. To prevent discolouration of the porcelain, observe the following conditions:
 - If tissue paper fibers get incorporated into the porcelain slurry during water sorption in the condensation procedure, the fibers will not burn off completely. After drying, check to make sure that no residual tissue fibers remain before baking.
 - Always use freshly mixed porcelain.
6. The layers applied with this product should not exceed the thickness of the ceramic framework.
7. Keep the interior of the porcelain furnace clean by periodically firing it above 1,000 °C (1,832 °F) while empty.
8. Dispose of this product as a medical waste to prevent infection.
9. Do not use Internal Stain as an external stain.
10. Do not use IS LIQUID near fire or high-temperature objects.

STORAGE

1. The product must be stored in a cool and dry place. Keep away from direct sunlight.
2. The product should be stored at 1 – 30 °C (33.8 – 86 °F).
3. The product must be stored in an appropriate place where only dental personnel have access.
4. The product must be used by the expiration date indicated on the package.
5. Do not store IS LIQUID near flames or high-temperature objects.

DIRECTIONS FOR USE

VALUE LINER

Shade	How to Use
 Value Liner 1	Add opacity and control the decrease in brightness of the frame. Suitable for light shades such as A2 or lighter.
 Value Liner 2	Add opacity and control the decrease in brightness of the frame. Suitable for dark shades such as A3 or darker.

ENAMEL

Shade	How to Use
 E ₁	Used for the dentin area, to reproduce translucent dentin colour. Apply this shade to one-third of the way from the incisal edge.
 E ₂	Used for the dentin area, to reproduce translucent dentin colour. Apply this shade to one-third of the way from the incisal edge.
 Silky E ₂	Used for the dentin area, to reproduce translucent dentin colour. Apply this shade to one-third of the way from the incisal edge.

TRANSLUCENT

Shade	How to Use
 Tx	Used to reproduce high translucent enamel surface colour.

OPACIOUS BODY

Shade	How to Use
 OBXW	Used for EW shade.
 OBA ₁	Used for A1 shade.
 OBA ₃	Used for A3 shade.
 OBB ₁	Used for B1 shade.

BODY

Shade	How to Use
 XWB	Used for EW shade.
 A ₁ B	Used for A1 shade.
 A ₃ B	Used for A3 shade.
 B ₁ B	Used for B1 shade.
 B ₃ B	Used for B3 shade.
 C ₂ B	Used for C2 shade.
 D ₂ B	Used for D2 shade.

MAMELON

Shade	How to Use
 Fluoro Mamelon 1	Highly fluorescent, used to reproduce light Mamelon.
 Fluoro Mamelon 2	Highly fluorescent, used to reproduce dark Mamelon.

LUSTER

Use Luster instead of or in combination with Translucent to reproduce the surface texture, opal effect and colour of the enamel.

Shade	How to Use
 LTx	High translucency and opal effect, used for a highly translucent incisal area. Use this alone or as a mixture with other Luster shades.
 LT ₀	Used mainly for a highly translucent incisal edge and for the simulation of highly translucent enamel (likely to be seen through the dentin).
 LT ₁	Used to reproduce the brightness of natural tooth enamel. Use this alone or as a mixture with other Luster shades.
 ELT ₁	Bleaching shade, used when the target shade is EW/EWY.
 ELT ₂	Bleaching shade, used when the target shade is EW.
 LT Super Gray	Useful for reducing brightness on incisal edges and for creating beautiful contrast effects. Use this alone or as a mixture with other Luster shades or Translucent Tx.
 LT Royal Blue	Strong bluish incisal colour. Used to reproduce the blue zone. Use this alone or as a mixture with other Luster shades.
 Aqua Blue 2	Young age incisal area colour. Used to reproduce the blue zone. Use this alone or as a mixture with other Luster shades or Translucent Tx.
 LT Coral	Pale pink colour. For adding pink touch to cervical, occlusal and incisal areas.
 Creamy Enamel	Used mainly on the cusps and ridges of molars, and occasionally on the area from mesial and distal proximal surfaces at the incisal edge of anterior teeth, to the area near the corners of the incisal edge.

CLEAR CERVICAL

Use Clear Cervical to reproduce internal colouration resembling the natural tooth without significant change to the chroma.

Shade	How to Use
 CCV-1	Used for the cervical area of brighter shades to reproduce internal colouration resembling the natural tooth without very much change to the chroma.
 CCV-2	Used for the cervical area.
 CCV-3	Used for the cervical area, in cases where the root is exposed or the crown is long.

TISSUE

Use Tissue to reproduce tissue colour.

Shade	How to Use
 Tissue 1	Reproduce general gingival colour.
 Tissue 4	Mix with other Tissue shades to enhance brightness. Suitable for adjustment of brightness in cases when the distance with the gingival is wide.
 Tissue 5	Used for areas where an opacious red tone is required.
 Tissue 6	Used to reproduce bright pink.

INTERNAL STAIN

Shade	How to Use
 White	Used to represent a white spot (white belt).
 Gray	Used to represent the grayish tones of the incisal edge.
 Incisal Blue 1	Used to represent the dark bluish tones of the incisal edge.
 Incisal Blue 2	Used to represent the violet bluish tones of the incisal edge.
 Blue	Used to represent the bluish tones of the incisal edge.
 Yellow	Used to give a yellowish tint by mixing with other shades.
 Mamelon Orange 2	Used to reproduce dark orange stain on the mamelons.
 Cervical 2	Used to give an orange tint to the cervical area.
 Salmon Pink	Used to make an orange-pink by mixing with other shades.
 Tissue Pink	Used to make an orange-pink by mixing with other shades.
 Tissue Red	Use alone or mixed with Tissue Pink as a gingival base. Contains no fluorescent material.
 A+	Used to increase the chroma of A Dentin shades.
 B+	Used to increase the chroma of B Dentin shades.
 Fluoro	Used to develop fluorescent colour more strongly under ultraviolet light (but is transparent under visible light) by mixing with other shades.
 Bright	Used to give gloss with higher transparency across the entire crown. Used to mix with other shades to adjust their chroma.

PRODUCT LINE-UP

Porcelain							
Liner	10 g, 50 g	Value Liner 1	Value Liner 2				
Opacious Body	10 g, 50 g	XWB	A ₁ B	A ₃ B	B ₁ B	B ₃ B	C ₂ B
		D ₂ B					
Body	10 g, 50 g	OBXW	OBA ₁	OBA ₃	OBB ₁		
Enamel	10 g, 50 g	E ₁	E ₂	Silky E ₂			
Translucent	10 g, 50 g	Tx					
Luster	10 g, 50 g	LTx	LT ₀	LT ₁	ELT ₁	ELT ₂	LT Super Gray
		LT Royal Blue	Aqua Blue 2	LT Coral	Creamy Enamel		
Clear Cervical	10 g, 50 g	CCV-1	CCV-2	CCV-3			
Mamelon	10 g, 50 g	Fluoro Mamelon 1	Fluoro Mamelon 2				
Tissue	10 g, 50 g	Tissue 1	Tissue 4	Tissue 5	Tissue 6		
Internal Stain	3 g	White	Gray	Incisal Blue 1	Incisal Blue 2	Blue	Yellow
		Mamelon Orange 2	Cervical 2	Salmon Pink	Tissue Pink	Tissue Red	A ⁺
		B ⁺	Fluoro	Bright			
Liquid							
LF LIQUID	100 ml						
IS LIQUID	10 ml / 100 ml						

BAKING SCHEDULE

Baking Schedule	Dry-out Time	Predrying Temp.		Start Vacuum		Heat Rate		Vacuum Level	Release Vacuum		High Temperature		Hold time In the air	Cool Time
	min.	°C	°F	°C	°F	°C/min.	°F/min.	kPa ^{*1}	°C	°F	°C	°F	min.	min.
Wash Bake	5	500	932	600	1112	45	81	96	740	1364	740	1364	1	4
Internal Stain	5	500	932	-	-	45	81	0	-	-	700	1292	-	4
Liner/Enamel/ Opacious Body/ Body/ Mamelon/ Translucent/Luster/ Clear Cervical ^{*2}	7-10	500	932	600	1112	45	81	96	740-770	1364-1418	740-770	1364-1418	1	4
Minor Adjustment ^{*2*3}	7-10	500	932	600	1112	45	81	96	730-760	1346-1400	730-760	1346-1400	0.5	4
Tissue ^{*2}	7-10	500	932	600	1112	45	81	96	720-750	1328-1382	720-750	1328-1382	1	4
Self Glaze ^{*2}	5	500	932	-	-	45	81	0	-	-	710-740	1310-1364	-	4
CERABIEN™ ZR FC Paste Stain	5	500	932	600	1112	45	81	96	730	1346	730	1346	1	4

Attention

The above program is only a guideline. Baking temperature may be varied with the peculiarities of different furnaces. Porcelain furnace temperature variations may be significant in the lower ranges. Determine the exact baking schedule by making a preliminary test before baking an actual case restoration.

*1 96 kPa = 72 cmHg (29 inchesHg)

*2 The lower baking limit is based on the assumption of a single crown. When baking multiple or large restorations, adjust the dry-out time and temperature according to the upper baking limits.

*3 This is the baking temperature for cases where Liner, Opacious Body, Body, Enamel, Translucent, Luster, Clear Cervical, and Mamelon are additionally applied.



PRODUCT ASSORTMENT



CERABIEN™ MiLai PORCELAIN 10 g

109-0191EU Value Liner 1
109-0201EU Value Liner 2
109-0051EU Tx
109-2011EU OBXW
109-2021EU OBA₁
109-2031EU OBA₃
109-2041EU OBB₁
109-2051EU XWB
109-2061EU A₁B
109-2071EU A₂B
109-2081EU B₁B
109-2091EU B₂B
109-2101EU C₁B
109-2111EU D₁B
109-2121EU E₁
109-0131EU E₂
109-2131EU SILKY E₂
109-2141EU CCV-1
109-0141EU CCV-2
109-2151EU CCV-3
109-2161EU Fluoro Mamelon 1
109-2171EU Fluoro Mamelon 2
109-0071EU LTx
109-2181EU LT₀
109-0081EU LT₁
109-0061EU ELT₁
109-2191EU ELT₂
109-2201EU LT Coral
109-0091EU LT Super Gray
109-0101EU LT Royal Blue
109-0111EU Aqua Blue 2
109-0121EU Creamy Enamel
109-0151EU Tissue 1
109-0161EU Tissue 4
109-0171EU Tissue 5
109-0181EU Tissue 6



CERABIEN™ MiLai PORCELAIN 50 g

109-0352EU Value Liner 1
109-0362EU Value Liner 2
109-0212EU Tx
109-2212EU OBXW
109-2222EU OBA₁
109-2232EU OBA₃
109-2242EU OBB₁
109-2252EU XWB
109-2262EU A₁B
109-2272EU A₂B
109-2282EU B₁B
109-2292EU B₂B
109-2302EU C₁B
109-2312EU D₁B
109-2322EU E₁
109-0292EU E₂
109-2332EU SILKY E₂
109-2342EU CCV-1
109-0302EU CCV-2
109-2352EU CCV-3
109-2362EU Fluoro Mamelon 1
109-2372EU Fluoro Mamelon 2
109-0232EU LTx
109-2382EU LT₀
109-0242EU LT₁
109-0222EU ELT₁
109-2392EU ELT₂
109-2402EU LT Coral
109-0252EU LT Super Gray
109-0262EU LT Royal Blue
109-0272EU Aqua Blue 2
109-0282EU Creamy Enamel
109-0312EU Tissue 1
109-0322EU Tissue 4
109-0332EU Tissue 5
109-0342EU Tissue 6



CERABIEN™ MiLai INTERNAL STAIN 3 g

109-0371EU White
109-0381EU Gray
109-0391EU Incisal Blue 1
109-0401EU Incisal Blue 2
109-0411EU Blue
109-0421EU Yellow
109-0431EU Mamelon Orange 2
109-0441EU Cervical 2
109-0451EU Salmon Pink
109-0461EU Tissue Pink
109-0471EU Tissue Red
109-0481EU A⁺
109-0491EU B⁺
109-0501EU Fluoro
109-0511EU Bright

CERABIEN™ MiLai KIT

109-0010EU CERABIEN™ MiLai MICRO LAYERING KIT (160 g)
109-0020EU CERABIEN™ MiLai INTERNAL STAIN KIT (45 g)
109-2412EU CERABIEN™ MiLai ADVANCED LAYERING KIT (160 g)
109-2422EU CERABIEN™ MiLai POWDER STARTER KIT (85 g)

CERABIEN™ MiLai COLOUR GUIDES

211-2639EU 802 MiLai PORCELAIN COLOUR GUIDE
(Liner, Opacious Body, Body, Mamelon, Tissue)
211-2649EU 803 MiLai PORCELAIN COLOUR GUIDE
(Enamel, Translucent, Luster, Clear Cervical)
211-2599EU INTERNAL STAIN COLOUR GUIDE



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- Before using this product, be sure to read the Instructions for Use supplied with the product.
- The specifications and appearance of the product are subject to change without notice.
- Printed colour can be slightly different from actual colour.

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