

A vibrant, abstract background of colorful powder splashes in shades of red, orange, yellow, green, blue, and purple, creating a dynamic and artistic effect.

InSync® ZR

Veneering ceramic

ZrO₂

Li-Di

Ti

PRETTY
COOL!

Instruction manual

HYBRID TECHNIQUE

English

MiYO Color & InSync ZR

Hybrid technique



Super smart and super simple, the hybrid technique.

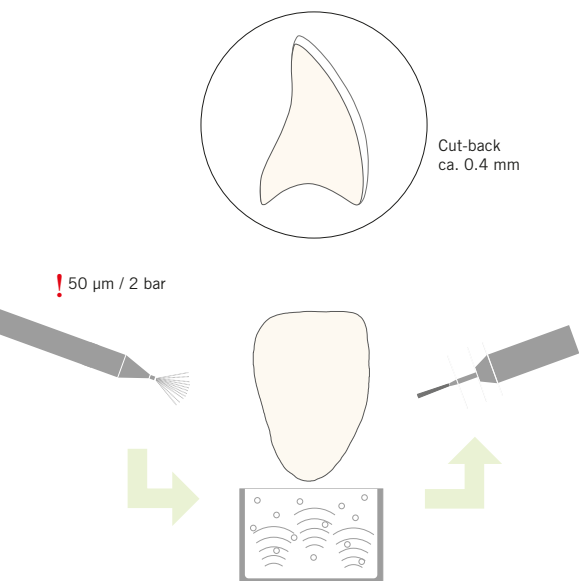
The combination of MiYO color masses for chromatic and aesthetic design of the restoration and the InSync ZR veneering ceramic for adjusting the depth effect connect efficiency and natural aesthetics.

This instruction manual explains the application of the hybrid technique in six steps.

It complements the MiYO or the InSync ZR Workbook.



1 Framework preparation



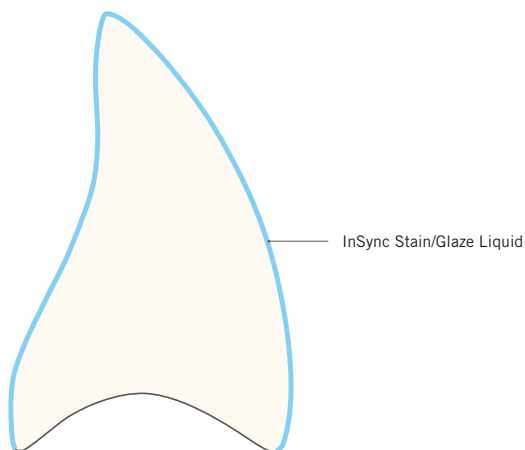
ZIRCONIA

- Prepare the zirconia frameworks after milling according to the manufacturer's instructions.
- Cut-back in the design or before the sintering process.
- Sandblast the sintered surface with Al_2O_3 or glass beads 50 μm and 2 bar pressure.
- Clean with distilled water in an ultrasonic bath.
- Clean carefully with a steam cleaner.

LITHIUM DISILICATE

- Cut-back in the design.
- Sandblast the surface with Al_2O_3 50 μm and 2 bar pressure.
- Clean with distilled water in an ultrasonic bath.
- Clean carefully with a steam cleaner.

2 Applying InSync Stain/Glaze Liquid



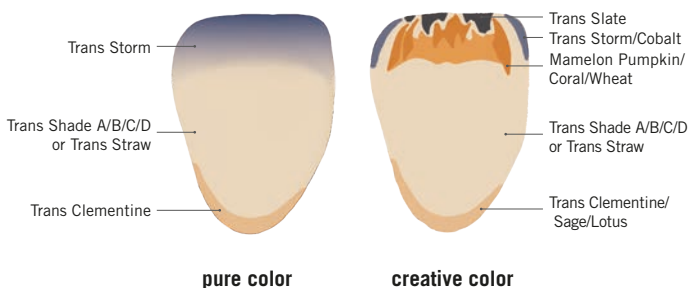
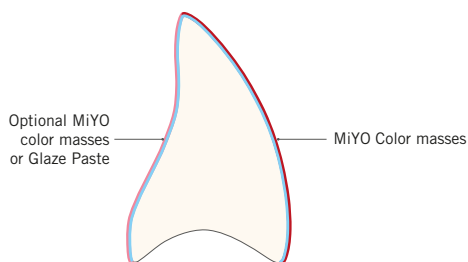
PROCESSING

- Apply InSync Stain/Glaze Liquid over the entire framework.

USED MATERIAL

- InSync Stain/Glaze Liquid

3 Coloring with MiYO Color



PREPARATION

- Mix MiYO Color thoroughly with a metal free spatula.

KOLORIEREN

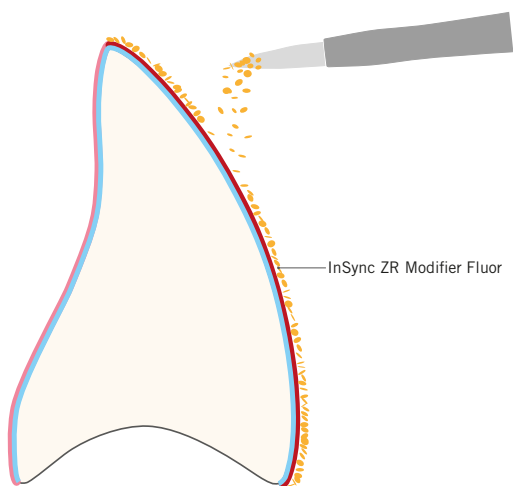
- Colorize the entire labial area with MiYO Color. For the palatal area use either MiYO Color or Glaze Paste.
- pure color: Colorize the entire labial area in three color zones: Trans Shade A/B/C/D or Trans Straw, set occlusal accents with Trans Storm and cervical accents with Trans Clementine.
- creative color: characterize individually with mamelon, halo, effect material and value enhancer.

USED MATERIAL

- Trans Shade A, B, C, D / Trans Straw
- Trans Storm/ Cobalt
- Trans Clementine/Sage/Lotus
- Mamelon Pumpkin/Coral/Wheat
- Trans Slate
- InSync Glaze Paste
- InSync Stain/Glaze Liquid



4 Applying InSync ZR Modifier Fluor



PROCESSING

- Pick up InSync ZR Modifier Fluor with a dry brush and carefully „sprinkle“ over the entire labial surface.

FIRING

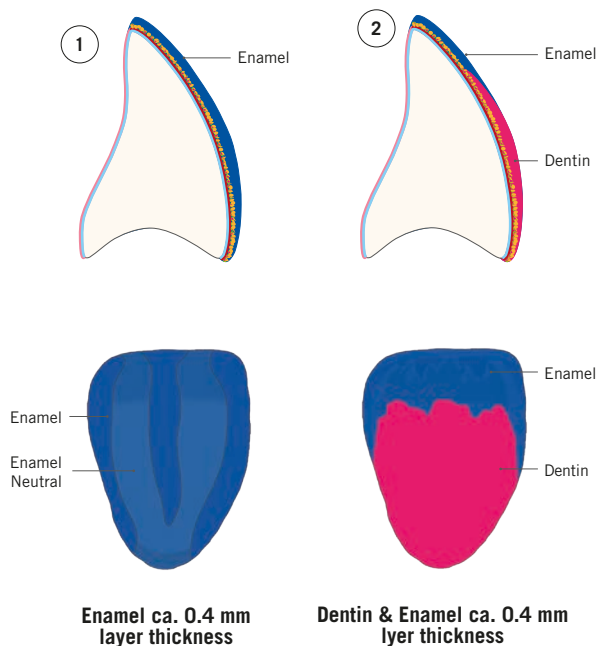
- MiYO color firing with furnace-specific firing parameters.

USED MATERIAL

- InSync Modifier Fluor



5 Completing with InSync ZR Enamel / Dentin



PREPARATION

- Mix Enamel / Dentin with Modelling Liquid to form a creamy consistency.

PROCESSING - 1

- Apply Enamel to create the desired tooth form.

PROCESSING - 2

- Apply Dentin to create the desired tooth form.
- Reduce the incisal area (cut-back).
- Complete the tooth form with Enamel.

FIRING

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

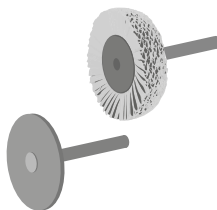
USED MATERIAL

- Enamel
- Dentin
- Modelling Liquid





6 Finishing


Optionally, a glaze firing with or without glaze paste can be carried out before polishing.



Firing tables

 MiYO Color firing	starting temperature [°C]	dry time [min]	closing time [min]	heat rate [°C / min]	holding time 1 [s]	vacuum start [°C]	end temperature [°C]	vacuum end [°C]	holding time 2 [s]	opening time [min]
ZrO ₂	400 - 450	3	4	45	30 - 45	580	720	720	30 - 60	1
Lithium Disilicate	400 - 450	3	4	45	30 - 45	580	710	710	30 - 60	1

 InSync ZR Dentin firing	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

 Glaze firing	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]
without glaze paste*	450	4	---	---	45	755	---	1	1
with glaze paste	450	3	4	580	45	720	720	1	1

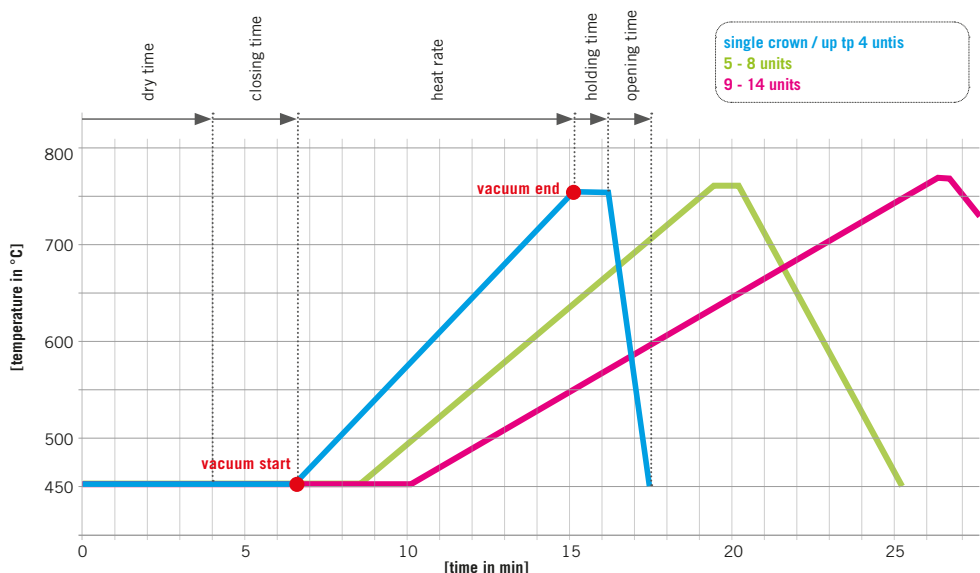
* Depending on the desired gloss level, the holding time can be adjusted.

! These firing temperatures are standard values and may vary depending on the type of furnace and the size (volume) of the restoration.

Firing graphs

! The firing temperatures indicated in the firing tables are guide values and may vary depending on the type of furnace. On the other hand, since zirconium dioxide is a poor heat conductor, the size of the restoration has a decisive influence on the firing result. Using the 1st dentin firing as an example, the firing procedure for restorations of different sizes is shown in the diagram; the firing procedure should be adapted accordingly for the other firings.

Please refer to the information on firing graphs in the MiYO Workbook for the MiYO color firing.



DRY TIME

- single crown / up to 4 units: 4 min
- 5 - 8 units: 5 min
- 9 - 14 units: 6 min

CLOSING TIME

- single crown / up to 4 units: 2 min
- 5 - 8 units: 3 min
- 9 - 14 units: 4 min

HEAT RATE

- single crown / up to 4 units: 40°/min
- 5 - 8 units: 30°/min
- 9 - 14 units: 20°/min

END TEMPERATURE

- single crown / up to 4 units: 765°C
- 5 - 8 units: 770°C
- 9 - 14 units: 775°C

HOLDING TIME

- single crown / up to 4 units: 1 min
- 5 - 8 units: 40 sec
- 9 - 14 units: 20 sec

OPENING TIME

- single crown / up to 4 units: 1 min
- 5 - 8 units: 5 min
- 9 - 14 units: 8 min

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