



miyo[®]3D
esthetic system
workbook



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Introduction

INTENDED USE:

Type 1, class 1b ceramic for the coloring, enhancing and glazing of the following restoration types: Zirconia and Lithium Disilicate

- Monolithic
- Minimally layered
- Traditionally layered
- Pressed-to

MiYO 3D is a part of Jensen's MiYO Esthetic System, a solution that is revolutionizing how dental restorations are made.

Thanks to an entirely new approach and carefully matched components, the challenges associated with creating monolithic restorations that mimic natural teeth have been eliminated.

The constantly expanding system integrates quickly and easily into any laboratory workflow, and offers a simple, predictable and cost effective approach to getting perfect shades and extremely natural esthetics, in minimal thickness (0.1mm-0.2mm), every time.

MiYO[®] makes beautiful easy.



MiYO Esthetic - for Teeth

The MiYO Liquid Ceramic system for teeth is comprised of 2 components, MiYO Color and MiYO Structure that reflect traditional layering materials. MiYO 3D consists of 11 Colors that work within the context of the MiYO Liquid Ceramic system.

MiYO Color

Translucent, semi-translucent and opaque self-glazing Colors. The unique properties of MiYO Color allow the user to float wet Color on top of wet Color without mixing, so that every detail imaginable can be achieved in one application.



MiYO Structure

Translucent self-glazing building pastes. The unique properties of MiYO Structure and High Fusing Structure allow the user to build shapes and create surface texture with a brush in ultra-thin layers (0.1mm – 0.2mm).



Getting Started

PREPARATION

- Before applying the material, the surface must be clean and free of surface contamination
- The surface can be sandblasted with 50 μm and 2 bar pressure.

INSTRUCTIONS FOR USE

- DO NOT pour out liquid that may accumulate on top of Color. Mix it back into the paste.
- MIX ALL MATERIALS THOROUGHLY BEFORE USE with the MiYO spatula to maintain consistency and proper handling properties throughout the life of the jar.
- DO NOT add water to the paste.
- Always use a clean brush.
- MiYO Structure has a different consistency than the Colors.
- Structure should NOT be stirred, but patted (shear thinning) to get a homogenous moisture dispersion.
- Structure, if it becomes too dry, needs to have InSync Glaze liquid applied and let to soak in. Then shear thinning can be applied to ensure dispersion.
- Small amounts of water on your brush can be used to manipulate/smooth the Structure on your restoration.

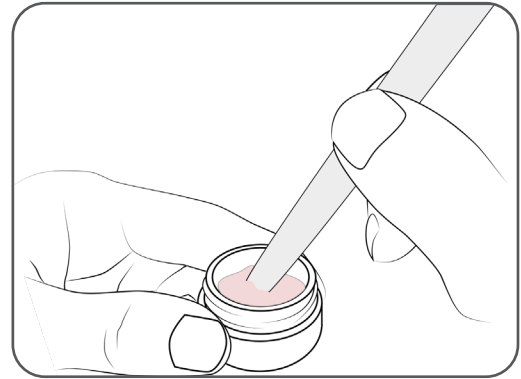
APPLICATION

- Apply material to the prepared surface according to its purpose and desired effect.

STORAGE AND DISPOSAL

- Store in a dry place.
- Small quantities can be deposited in household waste.

Learn more at
jensendental.com



**MIX MIYO COLOR, STRUCTURE, AND
GLAZE PASTE THOROUGHLY WITH A
METAL-FREE SPATULA BEFORE EACH USE**

MiYO Firing Parameters - for Teeth

The following firing temperatures are standard values and may vary depending on the type of furnace. The larger the mass of zirconia or lithium disilicate, the slower the rate of temperature increase is required to allow the large mass to heat up the same internally and externally. Firing parameters represent standard values and may need to be adjusted. Final results should be the determining factor in furnace adjustments. If higher sheen is desired, increase high temperature.

	ZIRCONIA & CRYSTALLIZED LITHIUM DISILICATE SINGLE UNITS TO 3 UNIT BRIDGES			ZIRCONIA MEDIUM CASE/MASS 4-8+ UNIT BRIDGES			ZIRCONIA LARGE CASE/MASS FULL ARCH/ALL-ON-4			PRESSED LITHIUM DISILICATE SINGLE UNITS TO 3 UNIT BRIDGES		
	MiYO Color & InSync Glaze	MiYO Structure	MiYO Structure High Fusing	MiYO Color & InSync Glaze	MiYO Structure	MiYO Structure High Fusing	MiYO Color & InSync Glaze	MiYO Structure	MiYO Structure High Fusing	MiYO Color & InSync Glaze	MiYO Structure	MiYO Structure High Fusing
Dry Time (Min)	5	5	5	6-8	6-8	6-8	8-10	8-10	8-10	5	5	5
Entry Time (Min)	6	6	6	6-8	6-8	6-8	8-10	8-10	8-10	5	5	5
Low Temp (°C)	450°C	450°C	450°C	450°C	450°C	450°C	430°C	430°C	430°C	550°C	550°C	550°C
Vacuum Start (°C)	510°C	510°C	510°C	510°C	510°C	510°C	510°C	510°C	510°C	550°C	550°C	550°C
Heat Rate (°C/Min)	45°C	45°C	45°C	40°C	40°C	40°C	35°C	35°C	35°C	45°C	45°C	50°C
High Temp (°C)	745°C	710°C	760°C	745°C	705°C	755°C	735°C	700°C	750°C	770°C	710°C	765°C
Vacuum Stop (°C)	745°C	710°C	760°C	745°C	705°C	755°C	735°C	700°C	750°C	770°C	710°C	765°C
Hold Time in Air (Min)	1	40 Sec	1	1	40 Sec	1	1	20 Sec	1	2	40 Sec	1
Cool Time (Min)	~5	~5	~5	~12	~12	~12	~20	~20	~20	~5	~5	~5

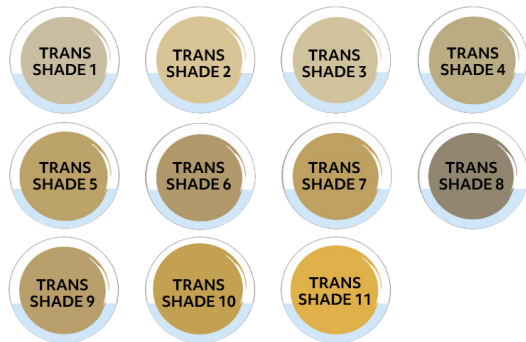
 Inhalation of ceramic dust can be hazardous to your health

CTE (25-500°C) [*10⁻⁶ K⁻¹] ± 1.0: MiYO Colors & Structure 7.4 (2x)
 CTE (25-500°C) [*10⁻⁶ K⁻¹] ± 0.5: MiYO and InSync Glaze 7.3 (1x)
 CTE (25-500°C) [*10⁻⁶ K⁻¹] ± 0.5: MiYO Structure High Fusing 8.2 (1x)

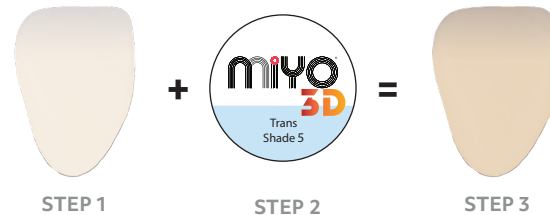
NOTE: Clamshell type furnaces typically need to have 10°C added to temps to fire the same as the vertical furnace temps shown in the chart. Early model clamshell-type ovens are not able to maintain a 'standby' temperature when open, requiring different dry/closing parameters and procedures. It is up to the technician to verify temps, no matter which furnace type is used.

Achieve VITA 3D-MASTER® Shades

11 Translucent Colors designed to achieve 12 VITA 3D-MASTER® Shades.



- STEP 1: Select pre-determined substructure shade
- STEP 2: Select corresponding MiYO® 3D shade
- STEP 3: Achieve target VITA 3D-MASTER® shade



MiYO 3D Conversion Chart

Use this MiYO 3D Conversion chart to convert VITA® Classic shades to specific VITA 3D-MASTER® shades, straight from the jar.

SELECT

Target VITA 3D-MASTER® Shade
1M1
1M2
2M1
2M2
2M3
3M1
3M2
3M3
4M1
4M2
4M3
5M3

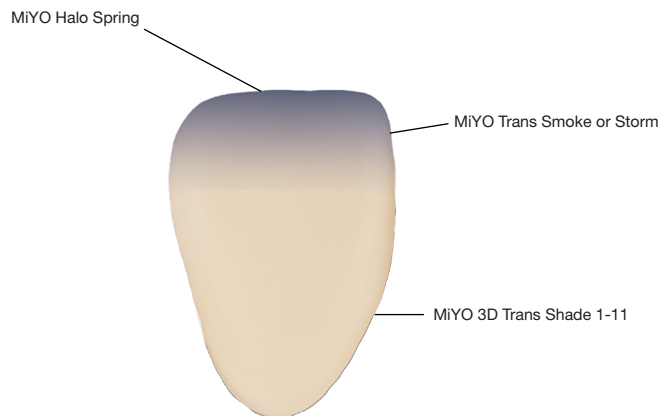
CHOOSE

Starting Substructure Shade
BL3
B1
BL3
A1
A1
BL3
C1
A1
C1
C2
A3.5
A4

APPLY

MiYO® 3D Trans Shade (1-11)
MiYO 3D Trans Shade 1
MiYO 3D Trans Shade 2
MiYO 3D Trans Shade 3
MiYO 3D Trans Shade 4
MiYO 3D Trans Shade 5
MiYO 3D Trans Shade 6
MiYO 3D Trans Shade 2
MiYO 3D Trans Shade 7
MiYO 3D Trans Shade 8
MiYO 3D Trans Shade 9
MiYO 3D Trans Shade 10
MiYO 3D Trans Shade 11

MiYO 3D Color Application Example



PREPARATION

- Mix MiYO Color well with a metal-free spatula.
- Apply thin wash of selected MiYO 3D Color to wet the surface.

COLOR APPLICATION

- Apply sufficient Color to match selected shade tab.



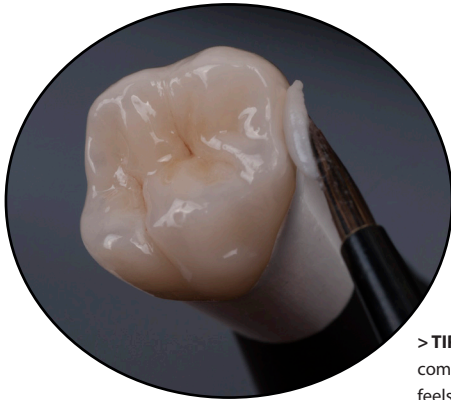
FIRING

- Fire with oven-specific firing parameters.

OPTIONAL

- If surface sheen is not sufficient after firing, apply a thin layer of glaze to restoration and fire.

MiYO Structure for Contacts Example



> **TIP:** MiYO Structure is similar to composite in the way it handles and feels, making it easy to apply and shape before firing.

PREPARATION

- Do not stir MiYO Structure materials.
- Pat/knead material in jar to achieve homogenous moisture dispersion.

STRUCTURE APPLICATION

- Apply Structure materials to crown wherever contacts are needed.

FIRING

- Fire with oven-specific firing parameters.

***Note: firing parameters are different for MiYO Structure and MiYO High Fusing Structure materials.

POST FIRING

- After firing, contact areas can be adjusted with a rotary instrument and brought back to a porosity free high shine.



MiYO Teeth System Components

Translucent



Shade A



Shade B



Shade C



Shade D



Lumin



Lumin Plus



Sage



Sunflower



Night



Straw



Lotus



Clementine



Smoke



Storm



Cobalt



Slate



Garnet



Moss

Medium Opacity



Halo Spring



Halo Autumn



Linen

High Opacity



Mamelon Wheat



Mamelon Coral



Mamelon Pumpkin



Snow



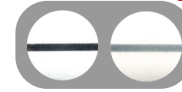
Fissure

Structure



Window Enamel Ghost Ice Blush

Structure High Fusing



Window Enamel

Glaze



MiYO Pink System Components

Translucent



Midnight



Raspberry



Copper



Carnation

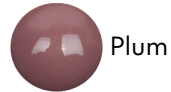
High Opacity



Flamingo



Crimson



Plum



Merlot



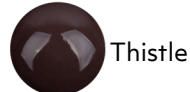
Venule



Sorbet



Salmon



Thistle



Sable



Hibiscus

Structure



Orchid



Rouge



Frost

Structure High Fusing



Orchid



Rouge



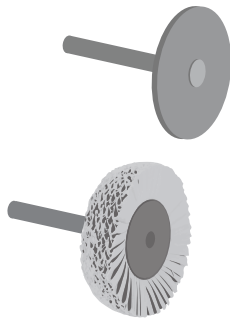
Frost

Glaze



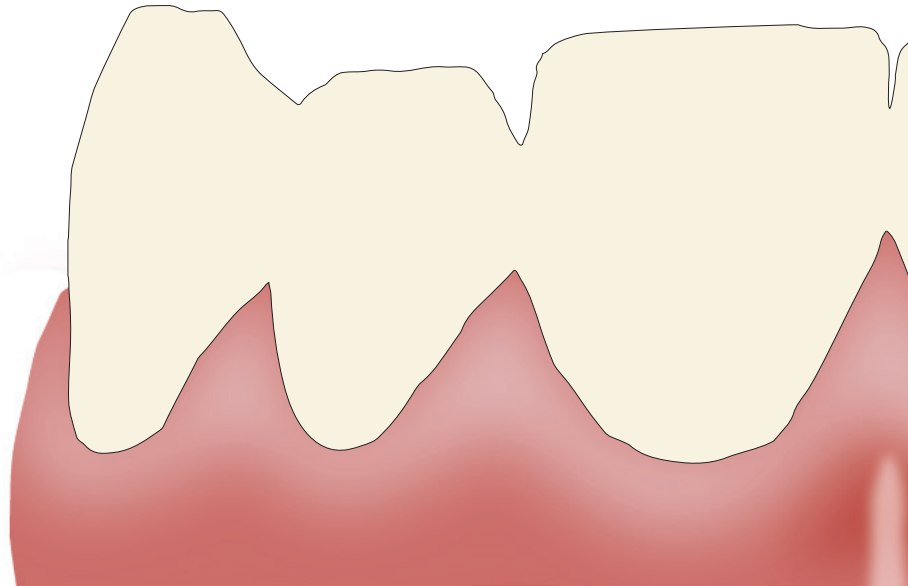
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Finishing



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After the glaze firing, the gloss level of the crown can be adjusted with pumice powder by hand or with a rotary instrument using diamond polishing paste.



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