MiYO Esthetic System Quick Start

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

BEFORE USE

- Pre-Color Preparation: Surface should be clean and free of contaminants.
- IMPORTANT: Do not pour out liquid that may accumulate at top of jar.
- MIX ALL MATERIALS THOROUGHLY BEFORE USE EVERY DAY to maintain consistency and proper handling properties throughout the life of the jar.
- Do not bring InSync Glaze or MiYO Color into contact with water! Contact with water will change the refractive index of liquid & will alter the appearance of colors while wet.
- Always use a clean brush.
- STRUCTURE MATERIAL ONLY: Use water to clean off brush prior to and during application.

⚠ Inhalation of ceramic dust can be hazardous to your health

MIXING

Keep your MiYO Colors mixed

- Dispense only what you need daily (for best handling characteristics).
- Mix your material for approximately 4-6 seconds (min) prior to dispensing.
  - Ensures even color distribution.
  - Enhances proper viscosity and optimizes handling.
- Only use InSync Glaze Liquid with MiYO Color.
  - Use sparingly (DO NOT get your Color too thin!)
  - Insures proper refractive index is maintained.

HANDLING

Differences between MiYO Color and Structure

- MiYO Color needs to be the correct thickness/viscosity to apply easily.
  - Stir prior to dispensing to get correct viscosity and homogenize color particle suspension.
  - They can only be mixed with InSync glaze liquid, NOT water!

- 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 in your brush can be used to manipulate/ smooth the Structure on your restoration.

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MIYO FIRING PARAMETERS

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- SMALL CASES SINGLE UNITS TO 3 UNIT BRIDGES			ZIRCONIA -MEDIUM CASES 4-8+ UNIT BRIDGES			ZIRCONIA - LARGE CASES FULL ARCH/ALL-ON-4			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

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.

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)

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