

Instruction for Using of Coloring Liquid



Coloring Indication

KINCH brand of coloring liquid are indicated for coloring of pre-sintered full-contour crown, bridge made by white dental zirconia blocks for the dental laboratory or clinic.

Handling Instruction

- ★ Recommend to wear personal safety gloves, when using our coloring liquid.
- ★ Forbid to eat, drink or smoke while processing the liquid.
- ★ Processing in air ventilation place and dry of the zirconia dental.

Storage Condition

- ★ Store in tightly closed original bottle.
- ★ Storage in cool & dry place, at room temperature (not above 30°C), keep away from sunlight. Cold storage is better.
- ★ Shelf life: 90 days
- ★ After using coloring liquid uncontaminated it is recommended to pour liquid into original bottle again for storage.



Coloring Category

Dentine Color: Vita Classic Shades A1-D4

Incisal Color: MC liquid



Coloring Method

Ready for Coloring

- ★ The restoration is clean and separated from zirconia blocks structure.
- ★ The color liquid must be applied using a metal-free, clean brush.
- ★ The color liquid must not be mix with different type.
- ★ The color liquid must not be contaminated.
- ★ Avoid contact with metal.
- ★ Do not use the invalidity products.

1. Dentine Coloring

Special coloring liquid container

Keep container closed when not in use,
avoiding contaminated.



ST series: Single color for full contour crown/ bridge

● Dipping



A Pour the intended coloring liquid into special container.



B Ensure the artificial crown or bridge fully dipped into liquid. Exhaust bubble by light shaking restoration. Dipping Time: Last 30-60 Seconds.



C Take out the artificial crown or bridge from coloring liquid by non-metal tweezer.

Suck dry residual liquid on the restoration with filter paper, placing 10-15 Minutes.

Drying Time: 20-60 Minutes.

ST series: Multi color for full contour crown/ bridge

Method: Dipping + Brushing

⦿ Dipping

- ★ Choosing base shade: A1/B1/C1/D2
- ★ Ensure the artificial crown or bridge fully dipped into liquid of base shade.
- ★ Dipping Time: Last 10 Seconds for restoration.
- ★ Suck dry residual liquid, placing 10-15 Minutes.
- ★ Dry 10-15 Minutes with infrared light, natural cooling to room temperature.

⦿ Brushing



- ★ Choosing intended coloring liquid from A1-D4.
- ★ Brushing intended color with 2# of OP from 1/3 or 1/2 of crown to occlusal for 1 time.
- ★ Staining intended color with 0# of glazing brush on fossa of teeth for 1 or 2 times.
- ★ Dry by infrared light, lasting 20-60 Minutes.
- ★ Natural cooling to room temperature.

HT series: Single color for full contour crown/ bridge

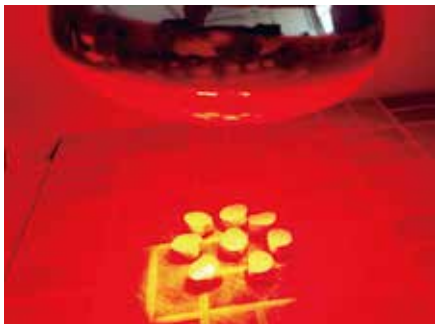
Attention: HT series dipping time -- 60 Seconds.
Other procedure is same with ST series.

2. Incisal Coloring

- ★ Brushing incisal color 1 or 2 times on outside of incisal part of teeth.
- ★ Drying 10 minutes by infrared light.
- ★ Natural cooling to room temperature.
- ★ Repeat (ST series: Single color for full contour crown/ bridge) coloring procedures.



Drying



- ★ Drying by infrared light.
- ★ Drying Temperature: Recommend 90-100 °C .
- ★ Drying Distance: Recommend 10 cm.
- ★ Drying Time:
 - 20-40 Minutes for single crown, bridge.
 - 40-60 Minutes for arch restoration.
- ★ Natural cooling to room temperature.

Sintering

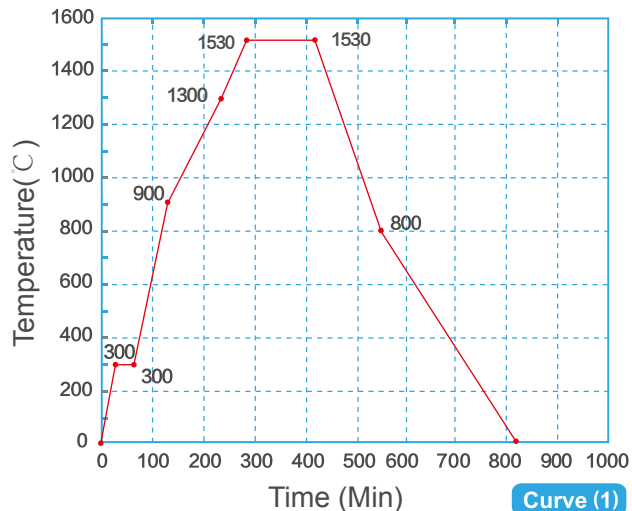
- ★ Put restoration into crucible with zirconia bead.
- ★ Ensure the restoration mutual independent, teeth occlusal adown(as photo).
- ★ Ensure the bridge fully touch zirconia bead, no apophysis.
- ★ Ensure the arch structure has supporting.



Zirconia Crucible

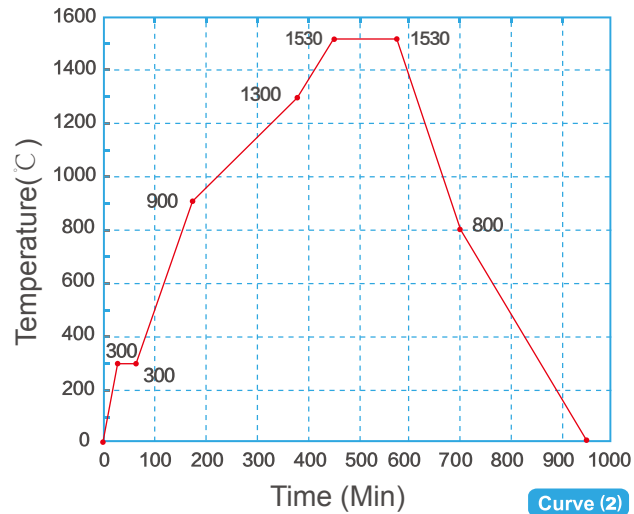
Sintering Temperature

For single crown, not over 6 units bridge



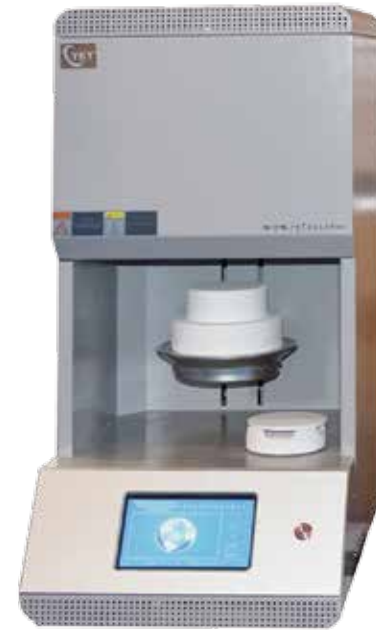
1. 0 °C ~300 °C: Ramp 10 °C/min;
 2. 300 °C ~300 °C: Holding 30min;
 3. 300 °C ~900 °C: Ramp 12 °C/min;
 4. 900 °C ~1300 °C: Ramp 3 °C/min;
 5. 1300 °C ~1530 °C: Ramp 5 °C/min;
 6. 1530 °C ~1530 °C: Holding 120min;
 7. 1530 °C ~800 °C: Ramp 6 °C/min;
 8. 800 °C ~Room Temperature: Natural cooling.
- Total time of sintering: Appr 13 hours

For over 6 units bridge



1. 0 °C ~300 °C: Ramp 10 °C/min;
 2. 300 °C ~300 °C: Holding 30min;
 3. 300 °C ~900 °C: Ramp 5 °C/min;
 4. 900 °C ~1300 °C: Ramp 2 °C/min;
 5. 1300 °C ~1530 °C: Ramp 3 °C/min;
 6. 1530 °C ~1530 °C: Holding 120min;
 7. 1530 °C ~800 °C: Ramp 6 °C/min;
 8. 800 °C ~Room Temperature: Natural cooling.
- Total time of sintering: Appr 16 hours

Attention: The missing teeth are over 3 pcs of anterior or 2 pcs of posterior, recommended to use curve (2).



Sintering furnace for zirconia

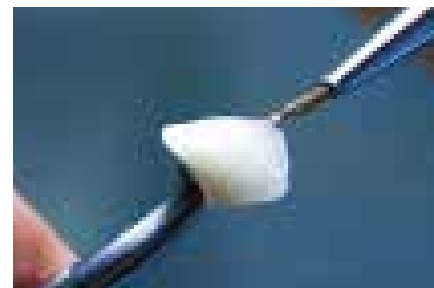
Polishing and Glazing



Polishing



Polishing



Glazing

Finishing





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