

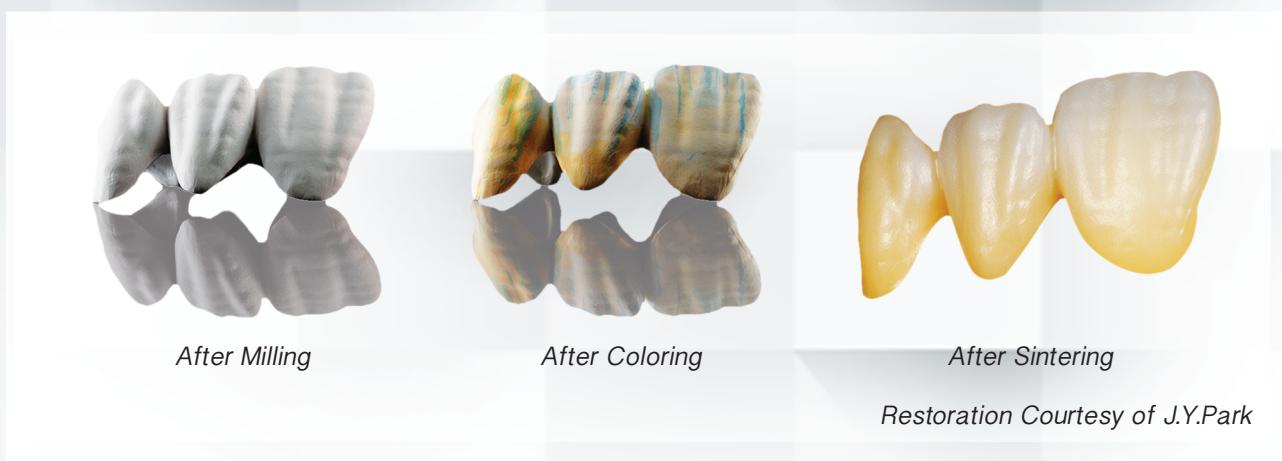
# Chang's Coloring Liquid

## Chang's coloring liquid

GIVE LIFE TO YOUR MONOLITHIC ZIRCONIA RESTORATIONS WITH  
THE MOST ADVANCED COLORING LIQUIDS AND TECHNIQUE



# Chang's Coloring Liquid Chart



**Chang's Coloring Liquids** are **water based** and **acid free**, used with only the **brush technique**. There are 18 different effect shades for desired characterizations. It provides intense saturation of color that penetrates deep into the zirconia material.



| BASE SHADE/40ML |       |
|-----------------|-------|
| No              | Color |
| 1               | A1    |
| 2               | A2    |
| 3               | A3    |
| 4               | A3.5  |
| 5               | A4    |
| 6               | B1    |
| 7               | B2    |
| 8               | B3    |
| 9               | B4    |
| 10              | C1    |
| 11              | C2    |
| 12              | C3    |
| 13              | C4    |
| 14              | D2    |
| 15              | D3    |
| 16              | D4    |

| DEEP DENTIN/40ML |         |
|------------------|---------|
| No               | Color   |
| 1                | DA Lite |
| 2                | DB Lite |
| 3                | DC Lite |
| 4                | DD Lite |
| 5                | DA Dark |
| 6                | DB Dark |
| 7                | DC Dark |
| 8                | DD Dark |

| EFFECT/15ML |                |
|-------------|----------------|
| No          | Color          |
| 1           | Grey           |
| 2           | Grey Violet    |
| 3           | Blue           |
| 4           | Young Trans    |
| 5           | Old Trans      |
| 6           | Orange         |
| 7           | White Opaq     |
| 8           | Opal           |
| 9           | Brown          |
| 10          | Pink           |
| 11          | Pink Orange    |
| 12          | Opal White     |
| 13          | Fluorescence   |
| 14          | T-Glass Blue   |
| 15          | T-Glass Grey   |
| 16          | Mamelon Lite   |
| 17          | Mamelon Orange |
| 18          | Dipping Enamel |

# Brush Technique

## Preparation:

Zirconia crowns milled

Flat Brush 6

Flat Brush 8

Slender Brush (Bamboo Thin Brush)

Palette

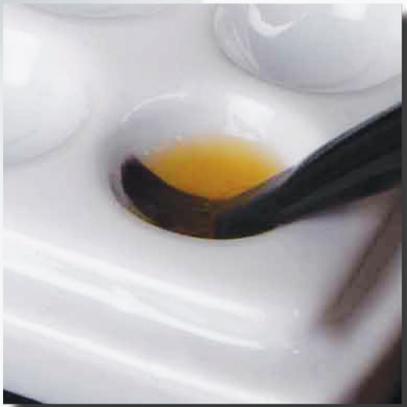
Chang's Coloring Liquids

- IDS CAD suggests 2 different ways to control the liquid, light or heavy brushing.
- IDS CAD will illustrate the basic coloring instructions. Please keep in mind that the coloring technique can be advanced through experience.
- All of our colors (minus white opaq.) can be mixed with each other to create even the most custom of shades.

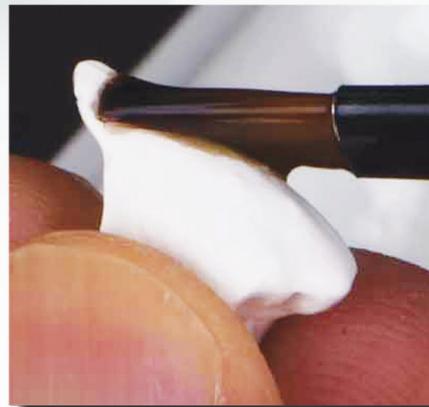
For even more visual instructions please feel free to visit

<https://www.idscad.com/video/>

## Heavy Brushing



1. Dip brush completely.



2. Apply with wider brush on surface with slow speed.

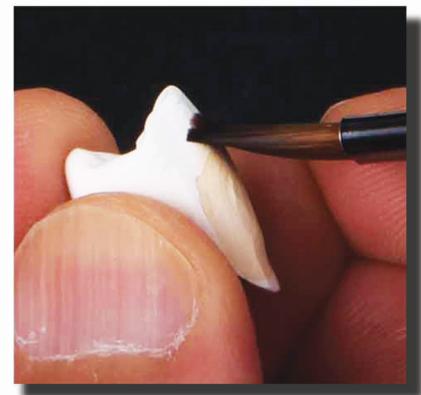
## Light Brushing



1. Dip only half of brush.



2. Squeeze brush lightly on the edge of palette.



3. Use 1/3 of brush tip with faster speed.

## Posterior

1. Apply **Gray**  
(Optional to control value)



2. Apply small amount of  
**Orange-Pink** on the  
main groove



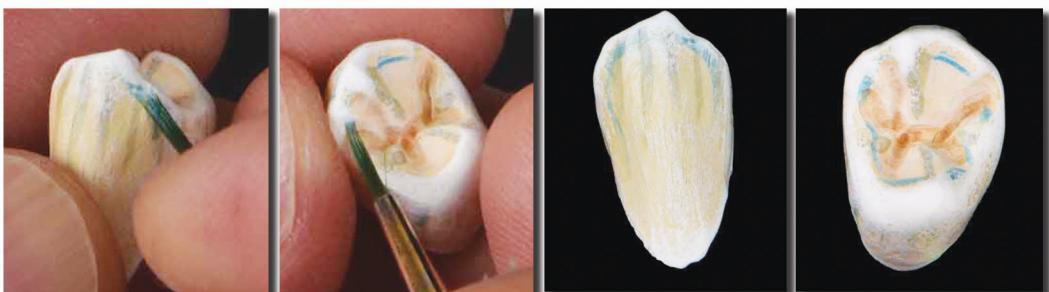
3. Apply **dentin**  
(Heavy Brushing)



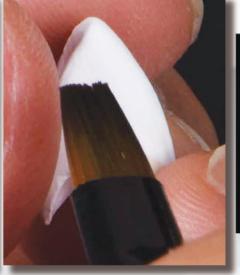
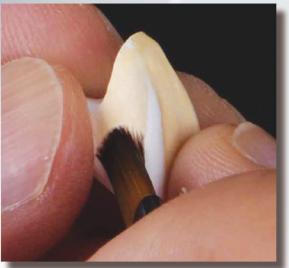
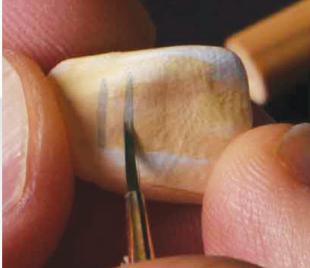
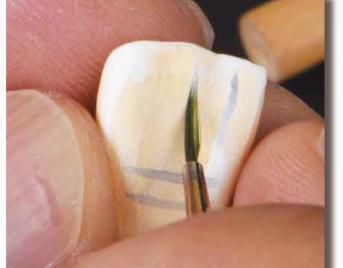
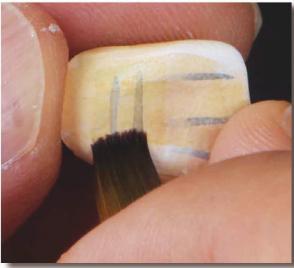
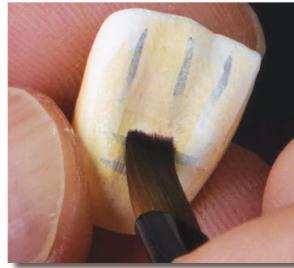
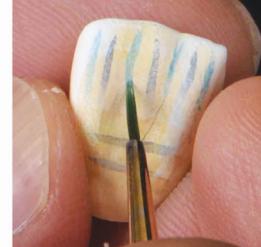
4. Apply **Young + Old  
(1:1) Trans** on incisal 2/3  
(Light Brushing)



5. Apply **Blue or  
T-Glass Blue**



# Anterior

|   |  |  |  |  |  |
|---|--|--|--|--|--|
| 1. Apply <b>Gray</b><br>(Optional to control value)                                   | (Same technique as posterior step# 1)  |  |  |  |  |
| 2. Apply small amount of <b>Orange-Pink</b> on cingulum, cervical, and proximal area. |      |  |  |  |  |
| 3. Apply <b>dentin</b><br>(Heavy Brushing)  |   |  |  |  |  |
| 4. Apply <b>Opal</b> on white band (horizontally) & on mamelon (vertically)           |     |  |  |  |  |
| 5. Apply <b>dentin</b> in between 'Opal' on the white bands to increase chroma        |   |  |  |  |  |
| 6. Cover with <b>Young + Old (1:1) Trans</b> (Light Brushing)                         |      |  |  |  |  |
| 7. Apply <b>T-Glass Blue</b> for strong translucency + window effect                  |      |  |  |  |  |

# White Opaque Usage

## Caution



Comparing the coverage of a pen marked inside the crowns.



**Do not mix with other liquids and store in the refrigerator.**

White Opaq. contains a bit of acid unlike other Chang's Liquids.

When mixed with other liquids, it becomes solid.

## White Opaque Brush Technique



1. Drop small amount of White Opaq. on Palette



2. Dip the liquid with thin brush.



3. Remove the liquid excess three times.



4. Brush inside of crown. A small amount is enough to achieve opaque effect.

## Deep Dentin Brush Technique

**Deep Dentin penetrates color deeper + creates opacity.**

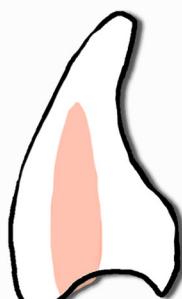
Use thin brush to apply.



1. Choose the desired Deep Dentin Color and brush vertically on the middle.

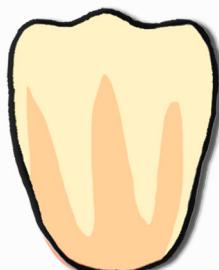


2. Draw lines on mesial and distal



3. Draw a line on proximal

4. Draw two lines on lingual



5. (DENTIN) Apply the desired dentin color on the entire surface with a flat brush.

# 4 unit bridges with Chang's Liquids



After Milling



After Coloring



After Sintering & Glazing

Restoration Courtesy of Chang Hwan Kim



After Colored & Sintered



Gingiva Build-up



Final

Restoration by Raymond Seo

## IDS CAD provides 'Coloring Brush Set'



Palette



Flat Brush 8



Flat Brush 6



Bamboo Thin Brush



Water Brush

*"IDS CAD cordially invites you to discover our Digital Artistry.  
Experience how it all began and gain insight into our production."*

*Discover the New Trend in Digital Artistry*

