

# concept *Art*

## Stains

for Lithium Disilicate glass ceramic  
and Zirconium  
oxide



DC Ceram™

## DC Ceram - the new product line

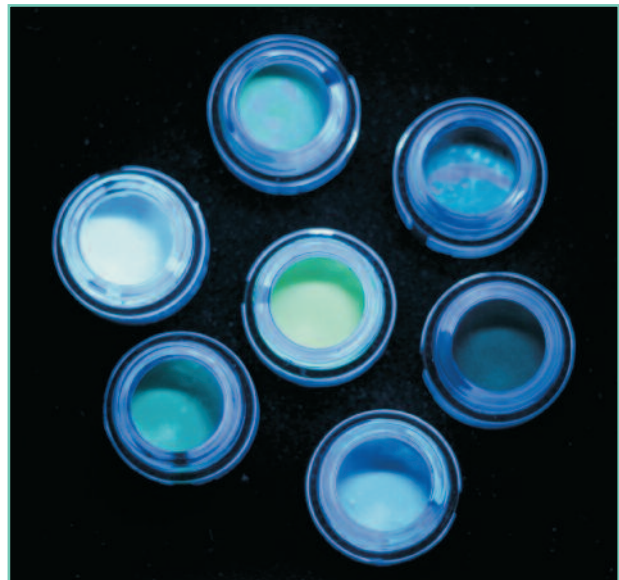
DC Ceram creates next to the already established dental ceramics Authentic and Pulse the third and newest product line of Ceramay. As successfully used in the past Generation some basic components are being used, who show Fluorescents and Opalescent just like in natural teeth. Circular opalescent separation areas with a diameter of 30 and 300nm provide for scattering of the incident light.

## Concept Art – the paste stain for Zircon Oxide and Lithium Disilikat

These stains used for stain technic or for individual characterization as “internal stains” leads with low effort to excellent results for pressed, milled or build ceramic. The consistency is matched to the respective area of application witch means staining of the shades with lower viscosity dimensional homogeneous appearance after fireing. The modifier with a firmer consistency makes it easier for the technician to create a more targeted characterization of the ceramic.

## Concept Art – the fluorescent paste stain

Fluorescent stains have compared to the classic stains a huge advantage. The fluorescent components operate as light amplifying. It means that in relatively dark areas such as the mouth cavity the Concept Art stains stay in their light optical appearance similar to the fluorescence of a natural tooth. Graying of the stained parts does not take place.



## The Shades

Shades are referred to as the basic shades of a group after the Vita shade system A,B,C and D. mainly added in the cervical area of the tooth up to the tooth equator they provide the ceramic restoration with the chromatic basic shade. The intensity of the applied quantity controls the shade provided by the numbers 1 to 4. In contrast to the Modifier or Value stains the technician stays within the same color group if he applies to strong or too weak, without changing the basic shade of the ceramic restoration. The consistency of the Concept Art Shades is set up so the dimensional staining will be no problem and the sometimes spotty looking stain after firing is a thing of the past.

## The Value

The Value refers to the brightness of the natural tooth. Bleach shades are the brightest, grey or transparent teeth are the lowest value. But also specific areas of natural teeth appear bright. Therefore they are made out of fluorescent materials. In the fluorescent stains the brightness is controlled by more or less fluorescent particles in the porcelain stain and the optical color control. Gray or dark blue applied in the incisal area it suggests to the viewer a light transmission, a lesser brightness (similar to glass). A whiter area, less blue, creates the impression of a shiny bright body (similar to snow in sunlight). In this case the brightness is very high. Concept Art offers 7 stains that help with simple mediums to change and adjust the value of your restoration.







## The Modifier








Changes to the color of a tooth area are made with the Modifier Stains. They are pure colors and not bound to a color group. With their more stable consistency they are recommended for enamel craze lines or occlusal abrasive areas.







## Shade Stains

-  Shade A For the individual characterization of the shade group A. The color intensity depends of the used amount of the shade .For use in the cervical and occlusal area.
-  Shade B For the individual characterization of the shade group B. The color intensity depends of the used amount of the shade .For use in the cervical and occlusal area.
-  Shade C For the individual characterization of the shade group C. The color intensity depends of the used amount of the shade .For use in the cervical and occlusal area.
-  Shade D For the individual characterization of the shade group D. The color intensity depends of the used amount of the shade .For use in the cervical and occlusal area.

## Value Stains

-  White raises the brightness extremely, brightening of the cusp tips, internal effects
-  Vanilla raises the brightness, internal application in the center of the porcelain, to brighten up the tooth body
-  Smoke lowers the value extremely, creates optical depth (less than blue-Gray) and transparency
-  Violet Reduces the value, very soft effects of transparency, for the mesial and distal portion of molar and bicuspid (premolar)
-  Grey-Blue lowers the brightness very much, creates a strong optical depth (stronger than smoke), areas of use: incisal and approxiaml
-  Green lowers the value, in the body area of bleach colors to lower the value
-  Black lowers the value extremely, to mix in with other stains, characterization in the central occlusal fossa

## Modifier Stains

-  Yellow to intensify the yellows in light colors like B1, C1 or C2
-  Orange as a basic color, cervical, abrasive areas in the incisal or oral area, occlusal areas premolars and molars
-  Khaki to intensify the chroma, for cervical areas (more translucency than shades), underneath occlusal areas
-  Dark brown for characterization, central fossa, enamel craze lines (in combination with white), interproximal and cervical areas

## Example of Use anterior tooth bleach

Teeth in bleach shade and still looking natural. Technicians are faced with this problem after holding crowns or veneers in their hands after pressing or milling. Shades of the groups A thru D would raise the chroma too much.



## Example of full contour in ZrO<sub>2</sub>

Every year millions of art lovers from all over world flow into museums to admire the beauty of painting. Chinese porcelain, painted about 2000 years ago up to the pieces of the manufacture today in Meissen or Nymphenburg stand for their high art to give life to the white gold. Dental Technology should in my opinion use this artform as an inspiration for high quality craftsmanship and no longer take it as a compromise in the manufacturing of dental restorations.

Michael Ulbricht, Deutschland

## Posterior pressed in Lithium Disilikat

Years ago it was still unthinkable to manufacture crowns and bridges out of a single porcelain ingot without any further porcelain application and to stain it so that it would meet the high esthetic demand of dentists as well as patients. Modern stains with their optical properties get really close to the interplay of the light in the natural dentition.



Fluorescent shades and stains are the carrier of success in the stain technique because they copy nearly perfectly even in darker regions of the mouth the chromatic and brilliant Characteristics of fluorescent dentition.

Giovanni Montironi, Italien

Zubler VARIO 200 / VARIO 300 / VARIO PRESS 300

	Start temp. in °C	Drying in min	Closing time in min	Heating rate in °C/min	Final temp. in °C	Holding time in min	Vacuum	Opening time in min
Shade / Stain	450	3:00	3:00	35-45	750	1:00	yes	3:00-5:00
Glanze	450	3:00	3:00	35-45	740	1:00	no	3:00-5:00

Zubler VARIO 200ZR

	Start temp. in °C	Drying in min	Closing time in min	Heating rate in °C/min	Final temp. in °C	Holding time in min	Vacuum	Opening time °C/min
Shade / Stain	450	3:00	3:00	35-45	750	1:00	yes	35*
Glanze	450	3:00	3:00	35-45	740	1:00	no	35*

\* Explain

All other ovens

	Start temp. in °C	Drying in min	Closing time in min	Heating rate in °C/min	Final temp. in °C	Holding time in min	Vacuum	Opening time in min
Shade / Stain	450	-	3:00	35-45	750	1:00	yes	3:00-5:00
Glanze	450	-	3:00	35-45	740	1:00	no	3:00-5:00



DC Ceram Concept Art

- 4x Shades (3g) - in Paste
- 7x Value Stains (3g) - in Paste
- 4x Modifier Stains (3g) - in Paste
- 1x Glaze (4g)
- 1x Liquid (25ml)

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dentalceramics

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