

Zirkonzahn®



Monolithic zirconia structure



Slightly reduced zirconia structure



FRESCO CERAMICS APPLICATION

*With tips and special firing recommendations
from our dental technician Alexander Lichtmannegger*

 Alex Lichtmannegger



TEST STRUCTURE:
minimal cutback
0.3–0.7 mm

FRESCO ENAMEL LUMINESCENCE VALUE OVERVIEW



CONTROL
UV LAMP



FRESCO ENAMEL FLUO
KEAD4501

Fresco Enamel Fluo is used to recreate the natural tooth fluorescence. After firing, this paste provides the restoration with a slightly translucent and luminous effect. In order to create different degrees of fluorescence, it is also possible to mix it with other Fresco pastes.



FRESCO ENAMEL TRANSPA 3
KEAD2301

Fresco Enamel Transpa 3 is a whitish luminous ceramic paste which increases the brightness and opacity of the zirconia structure.



FRESCO ENAMEL OPAL
KEAD4601

Fresco Enamel Opal provides the restoration with a beautiful opalescent effect and recreates a natural luminous enamel. The brightness value of the zirconia restoration can be increased by one shade with a corresponding layer thickness of 0.3–0.7 mm.



FRESCO ENAMEL TRANSPA GREY
KEAD2601

Fresco Enamel Transpa Grey lowers the brightness value of the zirconia structure and can be used to reproduce greyish-looking, highly translucent teeth.



FRESCO ENAMEL TRANSPA NEUTRAL
KEAD3001

Fresco Enamel Transpa Neutral is a translucent enamel that can be used to recreate the translucency and the authentic color of natural teeth.



FRESCO ENAMEL TRANSPA ORANGE
KEAD2501

Fresco Enamel Transpa Orange has an orange-like transpa effect conceived to further characterize the restoration.

NOTE:
Fresco firing n. 1 is not required for monolithic structures.

FRESCO FIRING

WORKFLOW FOR LAYERING MONOLITHIC SINGLE CROWNS AND SMALL BRIDGES



TIP:
perform a Fresco Firing n. 2 to maintain the layered surface structure as well as possible. If a correction firing is necessary, repeat the Fresco Firing n. 2.

OPTIONAL TIP:
after Fresco Firing n. 2, the surface can be further characterized or polished, and/or an optional glaze and stain firing can be carried out without loss in structure.

GLAZE AND STAIN FIRING	
Temperature T	800 °C
Heating rate	45 °C
Stand-by temperature B	350 °C
Holding time H	2 min
Closing time S	6–8 min
Vacuum start	No vacuum
Vacuum end	No vacuum

FRESCO FIRING n. 2	
Temperature T	780 °C
Heating rate	45 °C
Stand-by temperature B	500 °C
Holding time H	5 min
Closing time S	6–8 min
Vacuum start	450 °C
Vacuum end	779 °C

OPTIONAL: GLAZE AND STAIN FIRING	
Temperature T	800 °C
Heating rate	45 °C
Stand-by temperature B	350 °C
Holding time H	1 min 15 s
Closing time S	2 min
Vacuum start	No vacuum
Vacuum end	No vacuum

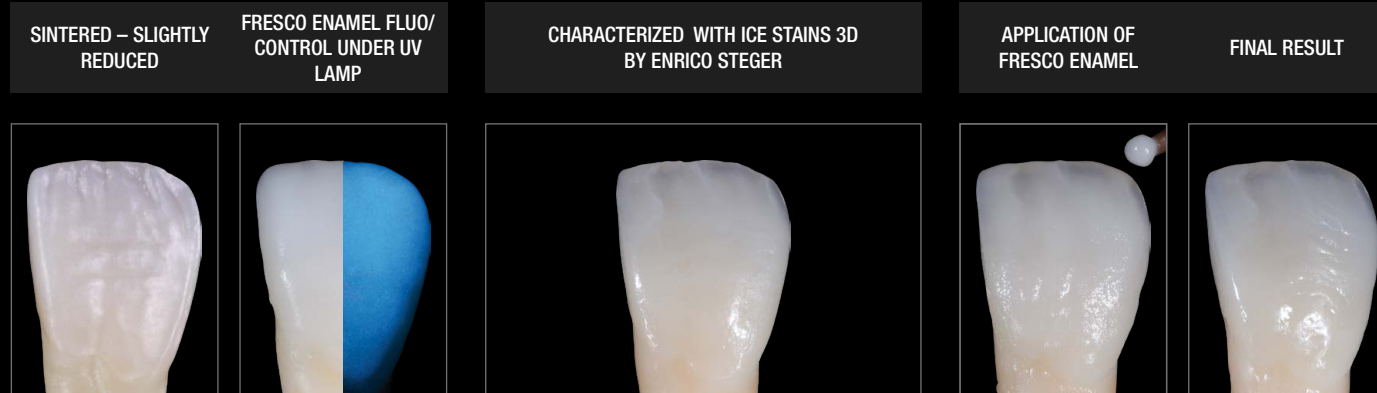
TEXTURE OF A MONOLITHIC CROWN WITH FRESCO ENAMEL

TEXTURE OF A SLIGHTLY REDUCED CROWN WITH FRESCO ENAMEL (0.3–0.7 mm)



FRESCO FIRING

WORKFLOW FOR LAYERING SLIGHTLY REDUCED SINGLE CROWNS AND SMALL BRIDGES



ICE Stains 3D by Enrico Steger

FRESCO FIRING n. 1	
Temperature T	810 °C
Heating rate	45 °C
Stand-by temperature B	500 °C
Holding time H	2 min 30 s
Closing time S	6–8 min
Vacuum start	450 °C
Vacuum end	810 °C

GLAZE AND STAIN FIRING	
Temperature T	800 °C
Heating rate	45 °C
Stand-by temperature B	350 °C
Holding time H	2 min
Closing time S	6–8 min
Vacuum start	No vacuum
Vacuum end	No vacuum

FRESCO FIRING n. 2	
Temperature T	780 °C
Heating rate	45 °C
Stand-by temperature B	500 °C
Holding time H	5 min
Closing time S	6–8 min
Vacuum start	450 °C
Vacuum end	779 °C

OPTIONAL: GLAZE AND STAIN FIRING	
Temperature T	800 °C
Heating rate	45 °C
Stand-by temperature B	350 °C
Holding time H	1 min 15 s
Closing time S	2 min
Vacuum start	No vacuum
Vacuum end	No vacuum

FRESCO FIRING

WORKFLOW FOR LAYERING MONOLITHIC OR SLIGHTLY REDUCED PRETTAU® BRIDGES

SINTERED –
MONOLITHIC

BEFORE FRESCO FIRING
n. 1



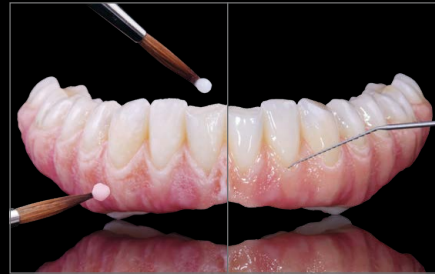
AFTER FRESCO FIRING
n. 1

CHARACTERIZED
WITH ICE STAINS 3D
BY ENRICO STEGER



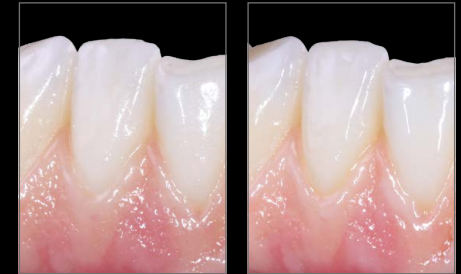
BEFORE FRESCO FIRING
n. 2

AFTER FRESCO FIRING
n. 2



AFTER FRESCO FIRING
n. 2

AFTER OPTIONAL
GLAZE AND STAIN
FIRING



FRESCO FIRING n. 1	
Temperature T	810 °C
Heating rate	20–25 °C
Stand-by temperature B	500 °C
Holding time H	4 min
Closing time S	10–12 min
Vacuum start	450 °C
Vacuum end	810 °C
Long-term cooling	200–400 °C

GLAZE AND STAIN FIRING	
Temperature T	800 °C
Heating rate	20–25 °C
Stand-by temperature B	350 °C
Holding time H	3 min
Closing time S	6–8 min
Vacuum start	No vacuum
Vacuum end	No vacuum
Long-term cooling	200–400 °C

FRESCO FIRING n. 2	
Temperature T	790 °C
Heating rate	20–25 °C
Stand-by temperature B	500 °C
Holding time H	7 min
Closing time S	10–12 min
Vacuum start	450 °C
Vacuum end	789 °C
Long-term cooling	200–400 °C

OPTIONAL: GLAZE AND STAIN FIRING	
Temperature T	800 °C
Heating rate	20–25 °C
Stand-by temperature B	350 °C
Holding time H	1 min 30 s
Closing time S	4 min
Vacuum start	No vacuum
Vacuum end	No vacuum
Long-term cooling	200–400 °C

FRESCO GINGIVA VS. NATURAL GINGIVA

FRESCO GINGIVA 1
KEAD6301



FRESCO GINGIVA 2
KEAD6311



FRESCO GINGIVA 3
KEAD6321



FRESCO GINGIVA 4
KEAD6331



FRESCO GINGIVA 5
KEAD6341



FRESCO GINGIVA 6
KEAD6351



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