

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



**FRESCO ENAMEL FLUO/CONTROL UV LAMP
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 colour of natural teeth.



**FRESCO ENAMEL TRANSPA ORANGE
KEAD2501**

Fresco Enamel Transpa Orange has an orange-like transpa effect conceived to further characterise 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 modelled surface structure. If a correction firing is necessary, repeat the Fresco Firing n. 2.

OPTIONAL TIP:
After Fresco Firing n. 2, the surface can be further characterised 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

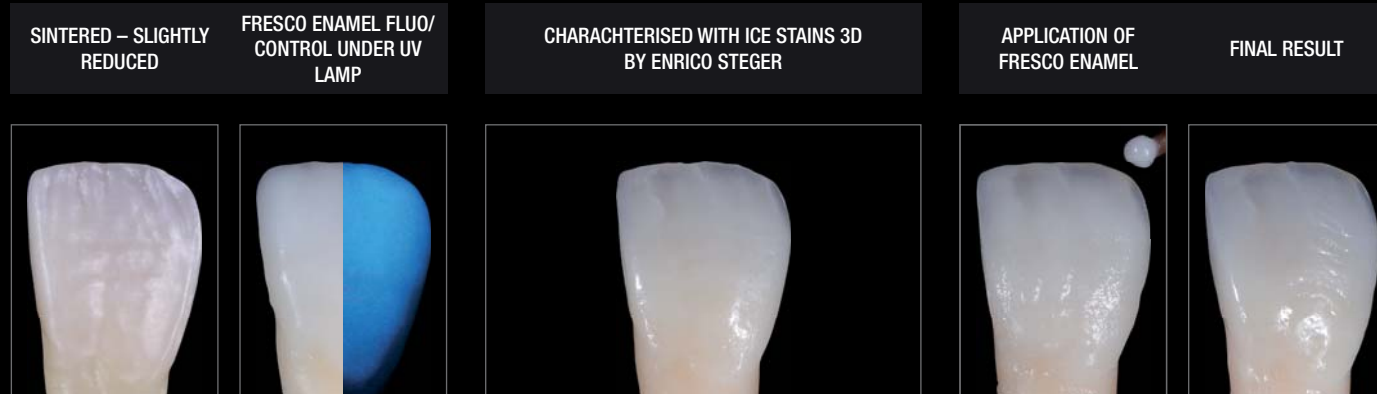
TEXTURE OF A MONOLITHIC CROWN WITH FRESCO ENAMEL

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



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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