CREATION WILLI GELLER INTERNATIONAL – SIMPLY BRILLIANT

WILLI GELLER Creation

INSTRUCTIONS FOR USE
CREATION CLASSIC GINGIVA CERAMICS

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CC

CONTENT

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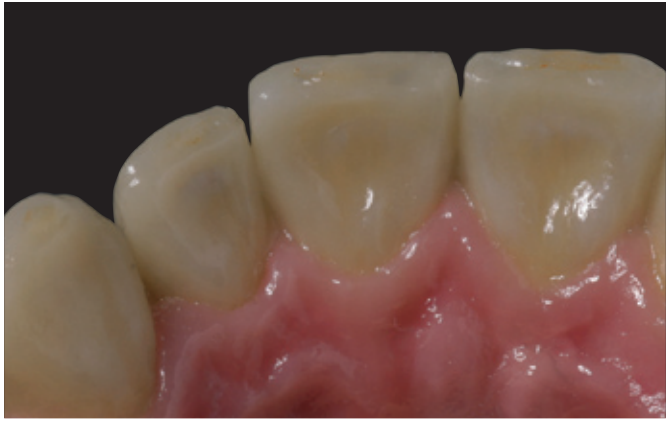
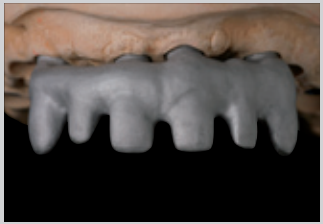


PINK AND WHITE IN PERFECTION

Creation CC Gingiva is a veneering ceramic for all kinds of metal frameworks - whether precious metal or non-precious metal. Owing to its life-like colouring, it meets the highest requirements for reproduction of soft tissue material lost as a result of atrophy (pink aesthetics!) and thereby allows innovative working with crowns, bridges or implant-supported superstructures.

FRAME

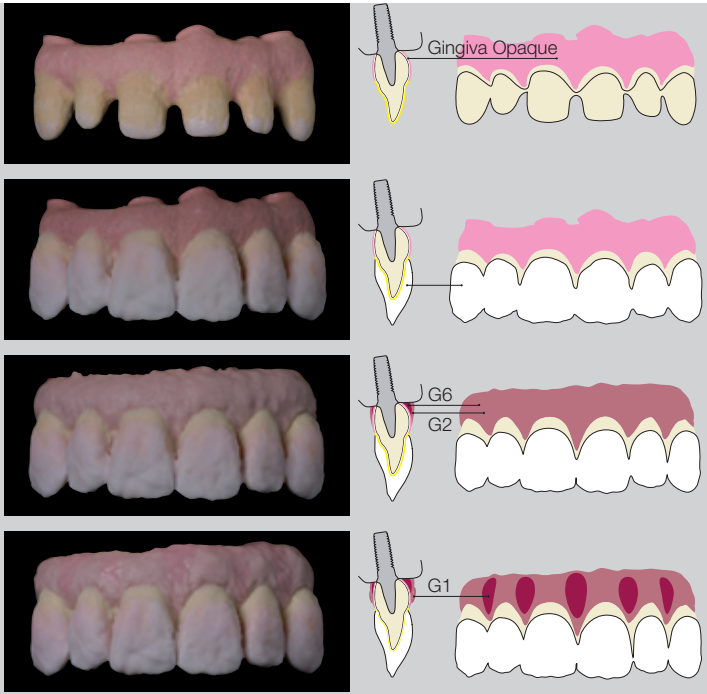


Precious metals or non-precious metals with a CTE of 13,8 – 14,9 at 25° – 500 °C can be veneered with Creation CC.

CTE >14,5: Prolonged cooling
CTE <14,1: The object must be removed rapidly from the firing chamber

Oxidize according to the alloy manufacturer‘s instructions.

OPAQUE AND 1. BUILD-UP



APPLICATION OF CREAPAST OR POWDER OPAQUE (see firing chart page 10).

It is important to ensure that the gingiva-coloured opaque is applied 1 mm shorter to prevent it extending cervically into the veneers.

1. BUILD-UP

Building-up the white aesthetics.

Building-up the pink aesthetics.

Then use **G2-dark pink** to cover the complete framework that is still exposed. For thicker layers, the porcelain can be supported from within using G6-dark pink opaque and colour-stabilised by the higher opacity.
It is important to ensure that the tooth-coloured and gingiva-coloured porcelains do not touch in order to allow well-directed positioning of the fired materials.

Wash in **G1-purple** mesially and distally to the alveolar slopes.

DENTINE FIRING AND 2. BUILD-UP

DENTINE FIRING

The dentine firing takes place at **920 °C under vacuum** (see firing chart p. 10). Reliable proof of a correct firing cycle can only be produced by visual checking after the firing.
If the appearance is as in the illustration, the firing cycle was perfect (**slightly shiny**).

2. BUILD-UP

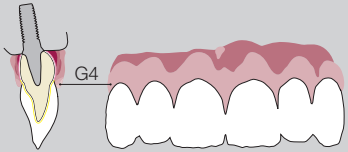
Completing the white aesthetics.

Completing the pink aesthetics.

Complete thin overlaying of the pink aesthetics with **G3-light pink**.

Individual characterisation of the gingival margin, labial and buccal frena with **G5-rose** and for lighter areas with **G4-flamingo**.

CORRECTION- AND GLAZE FIRING



1st CORRECTION FIRING

The correction firing takes place at **910 °C under vacuum** (see firing chart p. 10).

2nd CORRECTION FIRING

The 2nd correction firing takes place at **910 °C under vacuum** (see firing chart p. 10). Final corrections to the tooth shape and corrections to the gingiva are possible with **G4-flamingo**.

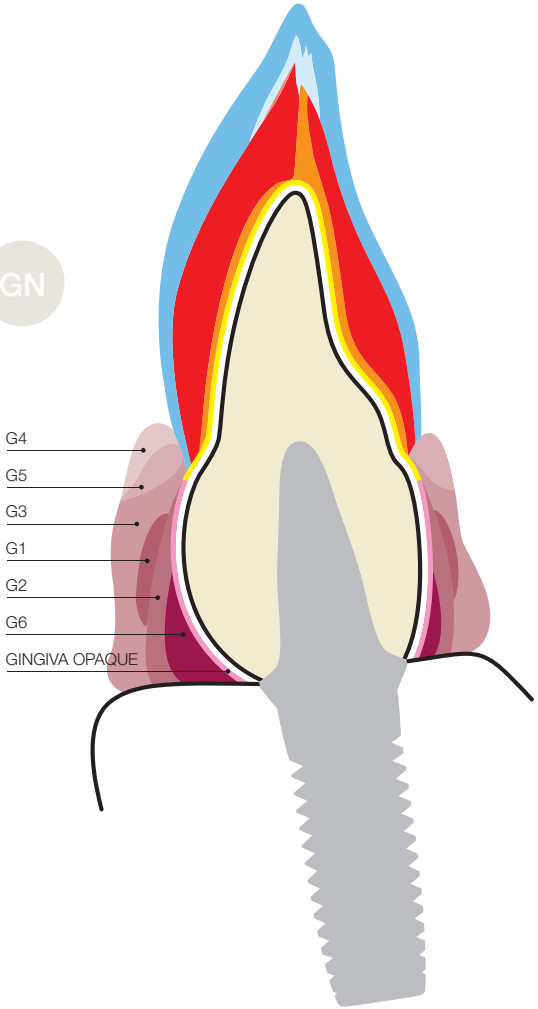
GLAZE FIRING

See the firing chart page 10.

Discolorations on the tooth surface or in the gingival can be mimicked in a life-like way with **Creation CC.AV. Make Up** (marking an glazing) or with **Creation CC.LF. Make Up Instant** (glazing and fluorescent).

BUILD-UP DIAGRAMME

G2 G6 G1 G3 G5 G4 G7 GN



COLOUR CHART

Powders Gingiva-Kit	G-1 purple	G-2 dark pink	G-3 light pink	G-4 flamingo	G-5 rose	G-6 dark pink opaque	G-N neutral*
Opaque	Creapast G			OM-G			
Liquids	Modelling Liquid			Opaque Liquid			

*With the porcelain GN-neutral the opacity of materials G1-G6 can be reduced by admixing and thus the transparency and the resulting depth effect can be increased.

FIRING CHART

	Preheating Temperature	Drying Time	Raise of Temp.	V	Final Temp.	Holding Time	Appearance
Oxide Firing	According to alloy manufacturer‘s instructions						
Crea Alloy Bond	550 °C	6 min.	80 °C/min.	+	980 °C	1 min.	Yellowish, slightly shiny**
1st Opaque Firing							Slightly shiny
- WOP Opaquer	550 °C	6 min.	80 °C/min.	+	950 °C	1 min.	
- Creapast*	550 °C	6 min.	80 °C/min.	+	980 °C	1 min.	
- Opaque Powder*	600 °C	2 min.	80 °C/min.	+	980 °C	1 min.	
2nd Opaque Firing							Eggshell finish
- Creapast	550 °C	6 min.	80 °C/min.	+	950 °C	1 min.	
- Opaque Powder	600 °C	2 min.	80 °C/min.	+	950 °C	1 min.	
1st and 2nd Shoulder Firing	600 °C	2 min.	80 °C/min.	+	950 °C	1 min.	Slightly shiny
Dentine Firing	580 °C	6 min.	55 °C/min.	+	920 °C	1 min.	
Correction Firing	580 °C	4 min.	55 °C/min.	+	910 °C	1 min.	
Glaze Firing	600 °C	2 min.	55 °C/min.	-	930 °C	-	Shiny
Glaze Firing with Glaze CC	600 °C	2 min.	55 °C/min.	-	900 °C	1 min.	
Glaze and Shade Firing (Make Up Instant)	480 °C	2 min.	45 °C/min.	-	850 °C	1 min.	Shiny

*When using non-precious alloys: final temperature 1.000°C.
** The appearance of the bonder can differ, depending on the alloy composition.

The firing parameters given above are guidelines, which must always be adjusted to suit the furnace used and the situation of the furnace. What is essential is getting the right firing result.

PHYSICAL PROPERTIES

Properties	Measure	Value	Norm
Dentine Firing	°C	920	
Coefficient of Thermal Expansion (25° – 500°C)	10^{-6} xK^{-1}	13,3 ± 0,3	
Glass Transition Temperature	°C	580 ± 10	
Solubility	µg/cm^2	16	max. 100
Density	g/cm^3	2,52	
Flexural Strength	MPa (Nmm^2)	84	min. 50
Median Grain Size	D 90 %	60	

All tested materials conform to standard EN ISO 9693:2000.
The technical and physical values given relate to samples produced in-house and the measuring instruments located there.

WILLI GELLER Creation

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