

**Instructions for use
& technical data
product group Copran
(CopraSymphony Instinct)**



Manufacturer	Whitepeaks Dental Solutions GmbH & Co. KG Langeheide 9 - 45239 Essen - Germany
Product/ Product type	Veneering ceramic for zirconium dioxide ceramic restorations
Product form	Powder in different colours
Material type	Silicate glass ceramic / ceramic type 1 class 1b medical device class IIa
Circle of users	Instructed users who produce and veneer individual dental restorations

Indication/ intended use

CopraSymphony Instinct is exclusively suitable for veneering zirconium dioxide ceramics in dental technology.

Contraindication

Do not use in case of proven hypersensitivity against one or several contents.

Do not use in case of insufficient space.

CopraSymphony Instinct is not suitable for patients with bruxism or parafunctions.

Material properties/ technical data

CopraSymphony Instinct is a veneering ceramic for the individualisation and characterisation of final sintered zirconium dioxide restorations by ceramic layering and subsequent firing in the ceramic furnace.

material designation	silicate glass ceramics
chemical composition	essential components firmly integrated into the glass-ceramic structure: SiO ₂ , Al ₂ O ₃ , K ₂ O, Na ₂ O, CaO, B ₂ O ₃
flexural strengtht MPa	> 50
coefficient of thermal expansion 25 – 500 °C:	2 firings: 9,0 +/- 0,5 x 10 ⁻⁶ /K 4 firings: 9,0 +/- 0,5 x 10 ⁻⁶ /K
coefficient of thermal expansion range of compatible zirconium dioxide 25 – 500 °C:	9,6 – 10,6 +/- 0,5 x 10 ⁻⁶ /K
glass transition temperature Tg(°C)	2 firings: 530 +/- 20 4 firings: 530 +/- 20

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Colour range

CopraSymphony Instinct base enamel 57	CopraSymphony Instinct opalescent moon
CopraSymphony Instinct base enamel 58	CopraSymphony Instinct opalescent cloud
CopraSymphony Instinct base enamel 59	CopraSymphony Instinct opalescent clear
CopraSymphony Instinct base enamel 60	CopraSymphony Instinct mamelon amber
CopraSymphony Instinct base enamel clear	CopraSymphony Instinct mamelon cream
CopraSymphony Instinct transpa lemon yellow	CopraSymphony Instinct gingiva light
CopraSymphony Instinct transpa bright orange	CopraSymphony Instinct gingiva medium
CopraSymphony Instinct transpa sky blue	CopraSymphony Instinct gingiva dark
CopraSymphony Instinct transpa aquamarin blue	
CopraSymphony Instinct transpa light pink	
CopraSymphony Instinct transpa storm grey	
CopraSymphony Instinct transpa cotton white	

Specification

CopraSymphony Instinct is exclusively suitable for veneering zirconium dioxide ceramics in dental technology. The ceramic layering has the advantage that the restoration can be customised individually for the patient. When used in accordance with directions CopraSymphony Instinct is completely biocompatible and non-toxic.

Instructions for use

The restoration should be already sintered and free of dust. The restoration should be processed dry.

Process steps

1. Mix the veneering ceramic powder and modelling liquid to a creamy mass and apply in small portions in the desired area. Compact by light vibration. Apply further veneering ceramic mass according to the tooth layering.
2. First firing (see firing table)
 - Dry the restoration on the firing tray for 4 minutes with the furnace open
 - Close furnace (440°C stand-by temperature)
 - Heat up to 810°C - 780°C under vacuum (vacuum on at 450°C) with 45 K/min
 - Holding time: 1-2 minutes (without vacuum)
 - After the holding time has elapsed, open the furnace with an opening time of 2 minutes.
3. Finish with milling instruments suitable for zirconium dioxide, clean the restoration thoroughly afterwards
4. Repeat points 1-3 as desired
5. Glaze firing (see firing table)

After the final firing, the restoration can be glazed if desired. Please observe the corresponding processing recommendations.

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Firing chart

	closing time	starting temperature	1. firing	2. firing	heat rate	vacuum start	holding time
	min	°C	°C	°C	k/min	°C	min
incisal and effect materials	4	400	780 – 810**	770 – 800**	45	450	1
glaze	4	400	750	750	55	no	1

* Increase firing temperature by 20-30°C for larger restorations due to the higher ceramic volume.

** The indicated firing temperatures are only guide values. The firing conditions vary for different ceramic furnaces. The exact firing temperatures and conditions of the respective ceramic furnace must be tested by the user on his own responsibility.

Safety instructions

Warning: The dust produced during processing of this product may cause irritation to skin/ eyes/ respiratory system. Avoid inhalation/ contact with skin/ contact with eyes. Always wear respiratory protection (filter class FFP2), tightly fitting safety goggles, protective gloves and protective clothing and switch on suction device.

Storage

Dry storage - protect from moisture/ humidity. Store in the original packaging.

Disposal

Dispose of product and packaging in accordance with local/ regional/ national/ international regulations. Do not dispose of together with household waste. Do not allow to enter water, ground water or sewage system.

Notice

Any serious incident, that has occurred in relation to the device must be reported to the manufacturer and to the competent authority of the Member State in which the user and/or patient is established.

Explanation of the markings on the packaging



Symbol for „article number“



Symbol for „LOT number“



Confirmation: The product complies with the applicable European directives.



Symbol for „follow the instructions for use“



Symbol for „is a medical device“



Symbol for “production date”

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Rx only

Symbol for "Caution: US Federal law restricts this device to sale by or on the order of a licensed physician or dentist."