

# 3D PRINTING WORLD PREMIERE



## VarseoSmile Crown <sup>plus</sup>

THE WORLD'S FIRST HYBRID MATERIAL FOR  
3D PRINTING OF PERMANENT RESTORATIONS

Partners in Progress



# VarseoSmile Crown <sup>plus</sup>

The tooth-colored ceramic filled hybrid material for 3D printing of permanent single crowns, inlays, onlays and veneers

## Advantages for the laboratory

- Specially for the resin developed printing and processing parameters ensure smooth production sequences with reproducible results at any time
- High dimensional stability and strength of the printed objects due to high values of flexural strength and flexural modulus – therefore precise fit
- Minimized resin sedimentation for easy handling, no mixing or shaking necessary with regular use
- Easy to grind and polish by using standard tools
- Seven shades according to the proven VITA\* classical shades: A1, A2, A3, B1, B3, C2, D3
- Satisfies all the requirements for a Class IIa\*\* medical device

## Individualization with stains

The individualization of the post-cured objects is possible with composite stains and is the responsibility of the user. Follow manufacturer's instructions.



## Advantages for the patient

- Excellent aesthetics thanks to a balanced ratio of opacity and translucency
- Low tendency to age and discolor thanks to very low water absorption
- Low plaque accumulation due to smooth surface
- High comfort thanks to low cold and heat sensitivity
- Antagonist-friendly material with mechanical buffering effect – ideal for implant-supported crowns
- Minimized formation of secondary caries thanks to a high adhesive bond with luting composites
- High biocompatibility due to very low water solubility – therefore not cytotoxic, not genotoxic, not toxic, not irritating and not sensitizing

## Note for practitioners

VarseoSmile Crown <sup>plus</sup> can be attached using self-adhesive cements (e. g. RelyX Unicem\*, 3M Espe\*) or composite cement with a primer (e. g. Variolink Esthetic DC\* and Monobond Plus\*, Ivoclar Vivadent\*). Observe the instructions for use of the luting agent.

\* This symbol is a commercial designation/registered trademark of a company which is not part of the BEGO company group.

\*\* Class IIa medical device as defined by Directive 93/42/EEC.

Images and illustrations are examples. Colors, symbols, designs, and information on the depicted labels and/or packaging may differ from reality.

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## Light-curing

The light polymerization can be achieved with the BEGO Otofash (two xenon stroboscopic lamps, flash frequency 10 Hz, light spectrum 300–700 nm) or with the HiLite Power\*, Fa. Heraeus Kulzer\* (one xenon stroboscope lamp, flash frequency 20 Hz, light spectrum 390–540 nm).



### Required light-curing time

Light-curing device	Light-curing	Comments
BEGO Otofash (with protective gas)	2 × 1,500 flashes	Turn object between the exposure cycles
HiLite Power	2 × 90 seconds	

### Technical specifications

Color	A1, A2, A3, B1, B3, C2, D3
Density	approx. 1.4–1.5 g/cm <sup>3</sup>
Layer thickness	50 µm
Viscosity	2,500–6,000 mPa*s
Flexural strength	116 MPa
Flexural modulus	4,090 MPa
Water solubility	0.23 µg/mm <sup>3</sup>
Water sorption	3.6 µg/mm <sup>3</sup>
Wavelength	405 nm

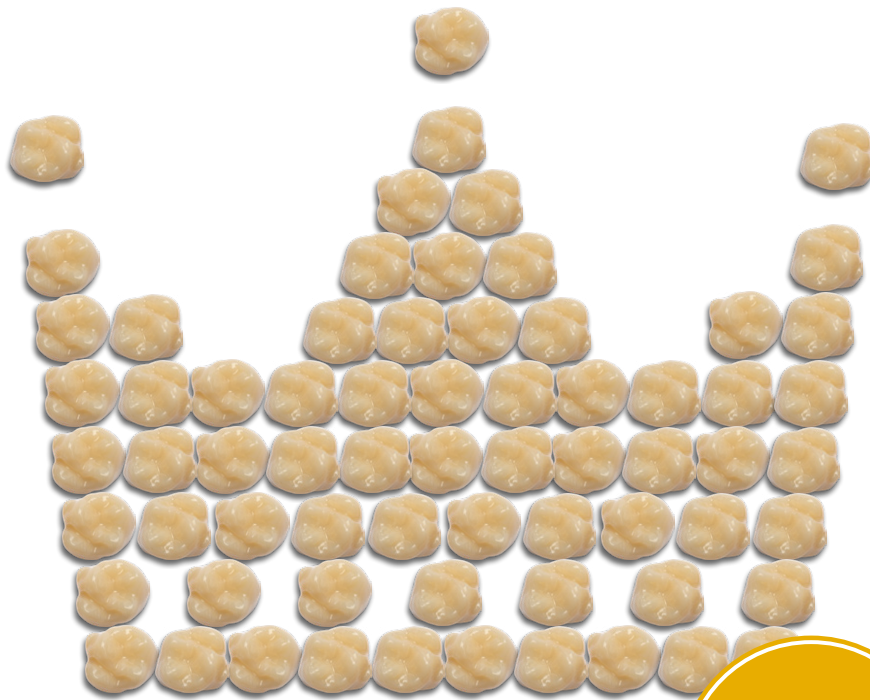
### Product details

Availability	Contents**	REF
VarseoSmile Crown <sup>plus</sup> A1	0.5 kg bottle	41107
VarseoSmile Crown <sup>plus</sup> A2	0.5 kg bottle	41108
VarseoSmile Crown <sup>plus</sup> A3	0.5 kg bottle	41109
VarseoSmile Crown <sup>plus</sup> B1	0.5 kg bottle	41110
VarseoSmile Crown <sup>plus</sup> B3	0.5 kg bottle	41111
VarseoSmile Crown <sup>plus</sup> C2	0.5 kg bottle	41112
VarseoSmile Crown <sup>plus</sup> D3	0.5 kg bottle	41113
VarseoSmile Crown <sup>plus</sup> A1	0.25 kg bottle	41117
VarseoSmile Crown <sup>plus</sup> A2	0.25 kg bottle	41118
VarseoSmile Crown <sup>plus</sup> A3	0.25 kg bottle	41119
VarseoSmile Crown <sup>plus</sup> B1	0.25 kg bottle	41120
VarseoSmile Crown <sup>plus</sup> B3	0.25 kg bottle	41121
VarseoSmile Crown <sup>plus</sup> C2	0.25 kg bottle	41122
VarseoSmile Crown <sup>plus</sup> D3	0.25 kg bottle	41123

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\*\* 0,25 kg bottles are exclusively available for Varseo XS.

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[www.bego.com](http://www.bego.com)

Detailed product information:



More BEGO 3D printing materials:



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