



# VarseoSmile Crown <sup>plus</sup>

THE 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 an accurate fit and smooth production sequences with reproducible results at any time
- The chemical and mechanical properties of the material are specially adapted to dental applications
- Versatile: as a single crown on natural tooth or on titanium abutments and bonding bases, as an inlay, onlay and veneer, and as a veneer on metal frameworks
- Objects that have already been printed can be adapted and repaired outside the patient's mouth while maintaining stability with VarseoSmile Crown<sup>plus</sup> – or will simply be reprinted due to low material costs
- 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
- FDA 510(k) cleared and fulfills all the requirements for a Class II medical device\*\*
- Thanks to the full integration into the digital workflow and the low material costs, a fast supply option with an excellent price-performance ratio is made possible
- Validated on many 3D printers from well-known manufacturers
- Extensive scientific studies by renowned universities and institutes confirm the excellent features of the restorations made of VarseoSmile Crown<sup>plus</sup>

## Advantages for the patient

- Excellent aesthetics thanks to a balanced ratio of opacity and translucency
- Fluorescence of the printed objects resembles that of the natural tooth
- 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
- Certified biocompatibility

## Individualization

The final polymerized objects can be customized using commercially available veneering composites and composite stains. The instructions for use of the material manufacturer must be observed.



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

\*\* Medical device as defined by section 201(h) of the Food, Drug & Cosmetic Act

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

## Note for practitioners

Permanent restorations made of VarseoSmile Crown<sup>plus</sup> can be attached with commercially available self-adhesive cements (e.g. RelyX Unicem\*, 3M Espe\*) or composite cements with primer (e.g. Variolink Esthetic DC\* and Monobond Plus\*, Ivoclar Vivadent\* and Panavia V5\*, Kuraray Noritake\* for titanium adhesive bases). Observe the instructions for use of the luting agent.



### Technical specifications

Color	A1, A2, A3, B1, B3, C2, D3
Density	approx. 1.4 – 1.5 g/cm <sup>3</sup>
Viscosity	2,500 – 6,000 mPa·s
Flexural strength	116 – 150 MPa**
Flexural modulus	4,090 MPa
Hardness	≥90 Shore D
Water solubility	< 1 µg/mm <sup>3</sup>
Water sorption	< 12 µg/mm <sup>3</sup>
Layer thickness	50 µm
Wavelength	385 nm and 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

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

\*\* See study "Effects of additional UV light curing processes" under [www.bego.com](http://www.bego.com)

\*\*\* 0.25 kg bottles are exclusively available for Varseo XS.

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

Detailed product information:



Scientific studies:



Compatibility Overview  
3D Printers and  
BEGO Varseo Materials:



Free 3D Printed  
VarseoSmile Crown <sup>plus</sup>  
Sample:



More BEGO  
3D printing materials:



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