



For permanent
crown and bridge
restorations

Processing information

VarseoSmile® TriniQ®

3D PRINTING HYBRID MATERIAL BY BEGO

Valid from
December 2024

Partners in progress



VarseoSmile® TriniQ®

Hybrid material for 3D printing of permanent crown and bridge restorations

VarseoSmile® TriniQ® is ideal for the fabrication of crown and bridge restorations, inlays, onlays, tabletops and veneers. The high strength of VarseoSmile® TriniQ® also enables the reliable realization of permanent three-unit bridges. Its suitability for the production of denture teeth extends the range of applications for VarseoSmile® TriniQ® and underlines its versatility as a dental material. The material fulfills all requirements for a class IIa medical device in accordance with the EC directive “Medical Devices” 93/42/EEC is available in VITA® classical shades.

Printed restorations made from VarseoSmile® TriniQ® are stand out, among other things, with their excellent aesthetics, low tendency to age and discoloration and a high wearing comfort for the patient. A high adhesive bond of the material with luting composites prevents the decementation and thus the possible formation of secondary caries.

The following instructions regarding the process are for restorations from VarseoSmile® TriniQ®, printed by BEGO and finalized in a laboratory.

Indication

VarseoSmile® TriniQ® is a tooth-colored, ceramic-filled hybrid-material made for the production of permanent single crowns, inlays, onlays, veneers, three-unit bridges and prosthetic teeth.

Contraindications

VarseoSmile® TriniQ® is contraindicated in the case of known allergies to one or more ingredients. In cases of doubt, the allergy should be clarified and ruled out by means of a specific test before using this product. The material should not be used for purposes other than those described by the manufacturer. Any deviation from the intended use, the instructions for use or the design requirements for the specific purpose may have a negative impact on the chemical and physical quality of the items made from this material.

Minimum wall thicknesses

Minimum wall thicknesses anterior teeth	0.7 mm
Minimum wall thicknesses posterior teeth	0.7 mm
Minimal wall thickness, cervical	0.5 mm
Minimum wall thickness three-unit bridge	1.0 mm
Minimum connector cross-section bridge	14.0 mm ²
Minimum wall thickness prosthetic tooth	1.0 mm



Finishing process, polishing and individualisation

Objects made of VarseoSmile® TriniQ® can be polished with pumice stone and polishing paste. When polishing, take care not to deform the printed objects. Objects made of VarseoSmile® TriniQ® can be characterised or reworked and supplemented with composite stains as well as direct and indirect composites. The valid instructions for use of the manufacturer of the composite stains or composite veneering material must be observed.

Fixation of bridges, crowns, inlays, onlays and veneers

- The definitive cementation of objects made of VarseoSmile® TriniQ® on natural teeth can be carried out with full or self-adhesive luting composites.
- The temporary attaching of restorations made of VarseoSmile® TriniQ® on natural teeth can be carried out with temporary luting cements.
- The attaching of restorations made of VarseoSmile® TriniQ® on metal frames can be carried out with luting or veneering composites.

Note: In any case, the instructions for use of the respective composite or cement manufacturer must be observed.

Caution: Glass ionomer cements are not suitable for the cementation of objects made of VarseoSmile® TriniQ®.

Fixation of prosthetic teeth

Artificial denture teeth made from VarseoSmile® TriniQ® can be connected with cold-cured or 3D printed denture base resins. Follow the current instructions from the manufacturer of the denture base material for how to connect the artificial teeth to the denture base. If the manufacturer of the denture base has not provided any instructions, the denture base material can be used to connect the artificial teeth to the denture base in the case of cold-cured denture bases. For 3D printed denture bases, the liquid VarseoSmile® TriniQ® resin can be used.

Storage and transportation of printed objects

Fully polymerised printed objects can be stored at room temperature, protected from light.

Cleaning of the restorations

Objects made of VarseoSmile® TriniQ® can be cleaned by steam cleaning or in an immersion bath with cleaning solution.

Disposal

Cured material can be disposed of as domestic waste.

Chemical composition

Esterification products of 4,4'-isopropylidiphenol, ethoxylated and 2-methylprop-2-enoic acid. Silanized dental glass, methyl benzoylformate, diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide.
Total content of inorganic fillers (particle size 0.7 µm) is 30–50 % by mass.

Material Data

VITA* classical Shades	A1, A2, A3, B1, B2, C2, D3
Flexural strength	≥ 120 MPa
Modulus of elasticity	3.600 MPa

Notes

Restorations made from VarseoSmile® TriniQ® are custom products in accordance with directive 93/42/EWG.
VarseoSmile® TriniQ® restorations made at BEGO satisfy all the requirements for a Class IIa** medical device.

Safety information

The processing of VarseoSmile® TriniQ® produces dusts, which can irritate the eyes, skin and airways. For this reason, please always ensure that the extraction systems at your workstation are in perfect working order.

Disposal

VarseoSmile® TriniQ® restorations are not water soluble, are inactive, pose no risk for the groundwater and can thus be disposed of as normal household waste.

Adverse effects

VarseoSmile® TriniQ® has no known adverse effects. However, individual reactions (e.g. allergies or incompatibilities) to components of VarseoSmile® TriniQ® in very rare cases cannot be excluded. In such cases, VarseoSmile® TriniQ® restorations should no longer be used.

Warranty

Our recommendations for use, whether given verbally, in writing, or by practical instruction, are based upon our own experience and trials and can therefore only be regarded as guidelines. Our products are subject to continuous development. We thus reserve the right to make modifications in design, appearance and materials without notice.

Identification

Manufacturer



Use

Use by qualified personnel only

Rx only

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

** Class IIa medical device in accordance with directive 93/42/EWG.



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