

Rapidly heatable, phosphate-bonded precision investment material specially developed for 3D printed crowns and bridges made of NPM C&B alloys.
 VarseoVest C&B, phosphate-bonded dental investment material:
 Type 1 (for the production of inlays, crowns, bridges and other fixed restorations),
 Class 2 (recommended for burning out during shock heating)



Danger

Safety instructions

Please read and follow the instructions in the insert

This material contains quartz which causes lung damage when breathed in during prolonged or repeated exposure. We recommend sufficient ventilation and wearing an FFP2 protective mask as suitable protection measures.

Preparation



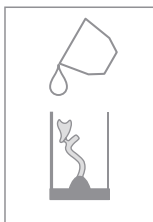
Crown and bridge alloys

- The printed CAD objects must be post-cured in accordance with the printing material specification. The precise fit of the CAD object must be checked prior to investment on the model (where available).
- Affix the printed CAD object with sprues on the BEGO *base socket mold former* in such a way that there is a clearance of at least 10 mm between the mold edge and top surface. Do not overfill the molds – ideally leave a clearance of 10 mm between the objects.
- Tip: In case of particularly large wax-ups, we recommend designing them to be hollow (depending on the software) or covering them with a wax film.
- The investment can be carried out with a silicone ring (ringless, size 3 and 6) or a metal mold ring in sizes 3 to 9. For metal mold rings, always use BEGO *fleecy inlay strips*:

2 strips for metal mold rings in size 3,
3 strips on top of each other for sizes 6+9.

Handling: The strips must be approx. ½ cm longer than the circumference of the mold ring. Moisten strips slightly. Press strips into mold ring so that they overlap and are flush with the **top** edge of the mold ring. Slip over the wax-up and press the **lower** edge of the mold ring into the base socket mold former.

Investment



- **Liquid: BegoSol® CC (Sensitive to freezing!** Storage and transport temperature: **+5°C** to **+35°C**)
- **Working temperature:** The liquid and powder should be at a temperature of 21 +/- 2°C.
- Premix liquid and powder for **15 seconds** and then mix thoroughly in a vacuum for **60 seconds** in a mixing unit at approx. 250–350 rpm.
- Working time: Approx. 3:15 min (21 +/- 2°C, 70% liquid). The working time is reduced with high room temperatures!
- Fill crowns carefully with a fine instrument. Fill the mold ring on the vibrator at the lowest vibration level. **Do not vibrate any more after filling!**
- Setting without pressure is recommended!
- **Note: The temperature of the preheating furnace must not fall below 800°C after insertion of the molds! Insert the molds in the furnace preheated to 800-900°C 20 minutes after the start of the mixing.**

Mixing ratio

100 g VarseoVest C&B: 20 ml Liquid BegoSol® CC

Mold size	160 g bag / liquid
3	1/32 ml
6	2/64 ml
9	3/96 ml

Liquid concentration

The concentrations are standard values and can be adapted according to the working conditions and object size. Do not dilute to below 40% under any circumstances!

Mixing concentration per 160 g bag [%]	40%	50%	60%	70%	80%	90%
BegoSol® CC/H ₂ O	13/19 ml	16/16 ml	19/13 ml	22/10 ml	26/6 ml	29/3 ml

for crown and bridge alloys

Wax-up:	Made of VarseoWax CAD/Cast Investment without pressure
Crowns and bridges in (Co-Cr)	Approx. 70%
Non-precious metal-to-ceramic alloys (Ni-Cr)	Approx. 65 %

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Preheating



	Shock heating
Setting time after mixing	20 min
Insertion temperature	800-900°C
Final temperature non-precious metal	800-900°C
Hold times for final temperature	90-120 min (depending on size and number of molds)

Shock heating

Only for mold sizes 3 to 9 • Insert molds with the casting funnel facing the rear of the furnace and without direct contact to the heat source in the furnace.

• **Observe the setting time and insertion temperature under all circumstances!**



Risk of injury with shock heating! Place all molds in the furnace within 10 seconds and then keep the furnace door closed for 15 minutes!

Inserting further molds leads to temperature decrease and thus to considerable extension of the preheating process. It is essential to ensure that the temperature of the preheating furnace never drops below 800°C!

After casting



After casting, allow the molds to cool down until warm to the touch in a protected and designated location; **do not quench in water!** Investment material contains quartz. Do not inhale dust!

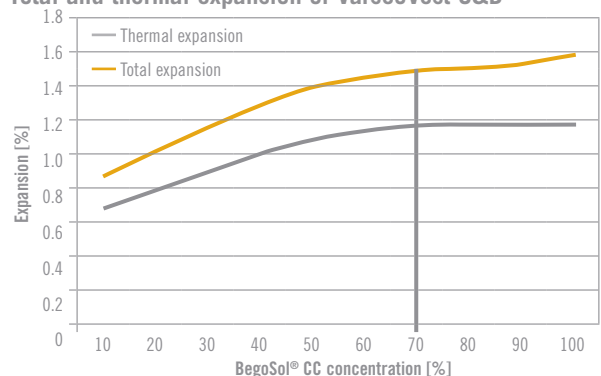
Danger of lung damage (silicosis, lung cancer). To avoid dust during deflasking, place the molds in water once they have cooled down completely after casting until they are thoroughly wetted. Then remove all investment material and oxides from the casting objects by means of 'sandblasting' and fit to the master model.

Data



	BegoSol® CC 70%
Working time at 21 +/- 2°C	Approx. 3:15 min
Flowability	140 mm
Total expansion	1.55%
Minimum shelf life	2 years
Key material values according to DIN EN ISO 15912	
Beginning of setting (Vicat time)	Approx. 5:30 min
Compressive strength (after 2 hours)	5.0 MPa
Linear thermal expansion	1.15%

Total and thermal expansion of VarseoVest C&B



This product was manufactured according to the specifications of DIN EN ISO 15912 and meets its requirements.

Scope of delivery and recommendations



	box		box
VarseoVest C&B 160 g bag	4.8 kg (30 bags)	– 54895	12.8 kg (80 bags) – 54894
BegoSol® CC	1,000 ml (1 bottle)	– 54907	5,000 ml (1 canister) – 54908

BEGO base socket mold former			BEGO metal mold ring			BEGO fleecy inlay strip		
size 3	(4 units)	52627	size 3	(4 units)	52422	40 mm	(3 x 30 m)	52409
size 6	(4 units)	52628	size 6	(4 units)	52423	45 mm	(3 x 30 m)	52408
size 9	(4 units)	52629	size 9	(4 units)	52424			

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.



Manufacturer



Article number



Use by



Warning



Date of manufacture



Batch number



Consult instructions for use

Info: Telephone +49 421 2028-380
www.bego.com