

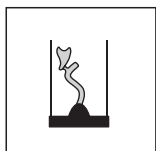
Graphite-free, phosphate-bonded precision investment material for crowns and bridges

Safety instructions

Please read and follow the instructions in the insert "Safety instructions and general instructions for BEGO investment materials"!

BEGO is an official co-partner of the German Olympic team for **Beijing in 2008**

Preparation



- Wax the spruded copings on the BEGO *base socket mould former* so that the distance to the mould edge and top surface is at least 5 mm (1/4"). Apply a thin coat of *Aurofilm* wetting agent and blow completely dry.

- Plastic copings (e. g. Pattern Resin or Palavit G) must be thinly coated with wax.
- Use BEGO *fleecy inlay strips*:

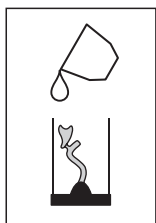
1 strip for metal mould rings in sizes 1+3,

2 strips on top of each other for sizes 6+9 as well as for all non-precious alloys.

Handling:

The strips must be approx. 1/2 cm longer than the circumference of the mould ring. Moisten strips slightly. Press strips in mould ring such that they overlap and are flush with the **top** edge of the mould ring. Slip over the wax-up and press the **lower** edge of the mould ring into the base socket mould former.

Investment



- Liquid: BegoSol® (recommended) or BegoSol® HE, if higher expansion requested.

	Storage and transport temperature
BegoSol®	-10 °C to +35 °C / 14 °F to 95 °F
BegoSol® HE – sensitive to frost!	+5 °C to +35 °C / 41 °F to 95 °F

- Before mixing, rinse out the clean mixing bowl with water and wipe off. Mixing bowls that are not clean or are dry withdraw moisture from the investment material!
- First put in liquid and add powder. Mix thoroughly **with a spatula** for approx. 10–15 seconds. After that mix for **60 seconds** in a mixing unit, such as *EasyMix*, under a vacuum. (Mixing without mixing unit: 2 minutes on the vibrator.)
- Time available for processing: approx. 5 minutes (20 °C / 70 °F). Higher room temperatures result in shorter working times!
- Fill crowns carefully with an instrument. Then fill mould ring while subjecting it to vibration and then take it off the vibrator.
- If heating is to be carried out without a ring, remove the ring used for investment as soon as possible after **complete** setting of the investment material (after approx. 15 minutes). Metal mould rings cannot be removed.

Mixing ratio

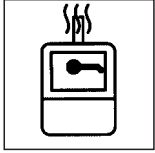
100 g Bellavest® T : 23 ml liquid

Mould size	Number of bags / Liquid		
	60 g bags	90 g bags	160 g bags
1	1/14 ml	1/21 ml	–
3	3/42 ml	2/42 ml	1/37 ml
6	6/84 ml	4/84 ml	2/74 ml
9	9/126 ml	6/126 ml	3/111 ml

	Bellavest® T Portion bags	BegoSol® (BegoSol® HE)	aqua dest.	Total liquid	Concentration of liquid
Precious metal & Precious metal- to-ceramic alloys	60 g	50 %	7 ml	7 ml	14 ml
	90 g		10.5 ml	10.5 ml	21 ml
	160 g		18.5 ml	18.5 ml	37 ml
Precious metal secondary parts	60 g	60 %	8.5 ml	5.5 ml	14 ml
	90 g		12.5 ml	8.5 ml	21 ml
	160 g		22 ml	15 ml	37 ml
Non-precious metal & non-precious metal- to-ceramic alloys	60 g	90 %	12.5 ml	1.5 ml	14 ml
	90 g		19 ml	2 ml	21 ml
	160 g		33 ml	4 ml	37 ml

Graphite-free, phosphate-bonded precision investment material for crowns and bridges

Preheating



Setting time after investment	at least 30 minutes
Insertion temperature	Room temperature (or 250 °C / 500 °F) *
Holding level	250 °C / 500 °F (with 5 °C/min / 9 °F) **
Final temperature	(with 7 °C/min / 12 °F) **
Precious metal	700–750 °C / 1290–1380 °F
Precious metal-to-ceramic alloys	800–850 °C / 1470–1560 °F
Non-precious metal secondary parts	700–750 °C / 1290–1380 °F
Non-precious metal and Non-precious metal-to-ceramic alloys	900–950 °C / 1650–1740 °F
Holding times for holding level and final temperature	30–60 minutes depending on size and number of moulds

* Only for furnaces with conventional control.

** Only for furnaces with computer control.

After casting



After casting allow the moulds to cool down until warm to the touch, **do not quench in water!**

To avoid dust during deflasking, place the moulds in water after they have cooled down completely after casting until they are thoroughly moistened.

Time available for processing at 20 °C / 70 °F approx. 5 min
at 27 °C / 80 °F approx. 3 min

Total expansion at 100 % BegoSol® approx. 3 %

Minimum shelf life 2 years

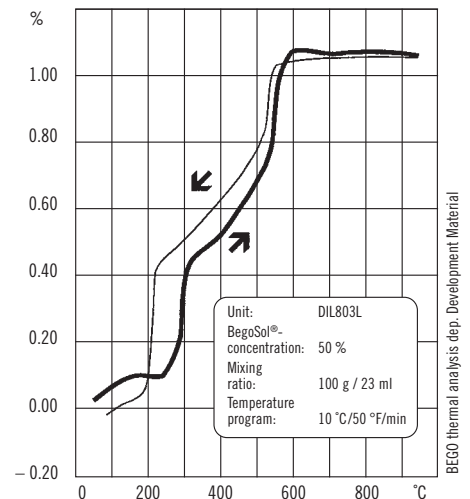
Data



Characteristic material values in accordance with DIN EN ISO 15912

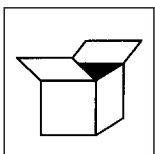
	Liquid	
	50 %	90 %
Beginning of setting (Vicat time)	approx. 9.5 min	
Compressive strength (after 2 hours)	7 MPa	10 MPa
Linear thermal expansion		
BegoSol®	1.05 %	1.2 %
BegoSol® HE	1.1 %	1.3 %

Thermal expansion curve for Bellavest® T



This product was made according to the specifications of DIN EN ISO 15912 and meets its requirements in all respects.

Availability and recommendations



	Carton		Carton	
Bellavest® T	60 g bag	4.50 kg (75 bags) – 54209	12.96 kg (144 bags) – 54213	12.80 kg (80 bags) – 54202
	90 g bag	4.05 kg (45 bags) – 54214		
	160 g bag	4.80 kg (30 bags) – 54201		
BegoSol®	1000 ml (1 bottle) – 51090	5000 ml (1 canister) – 51091		
BegoSol® HE	1000 ml (1 bottle) – 51095	5000 ml (1 canister) – 51096		

<i>EasyMix</i> (230 V)	26090	BEGO <i>metal mould ring</i>	BEGO <i>fleecy inlay strip</i>
BEGO <i>funnel former</i>		Size 1 (4 pieces)	40 mm (3 x 30 m) 52409
Size 3 (4 pieces)	52627	Size 3 (4 pieces)	45 mm (3 x 30 m) 52408
Size 6 (4 pieces)	52628	Size 6 (4 pieces)	
Size 9 (4 pieces)	52629	Size 9 (4 pieces)	52424
			<i>Aurofilm</i> (100 ml) 52019

Whether given verbally, in writing or by practical instructions, our recommendations for use are based upon our own experience and trials and can only be considered as standard values. Our products are subject to a constant further development. Therefore alterations in construction and composition are reserved.

For particularly good results we recommend an alloy from the following groups, depending on the indication

Bio PontoStar®



Wiron®

Info: Phone +49 421 2028-282 · www.bego.com