

K2 Press - Universal

Speed-investment material for the press-ceramics

The K2 Press Universal investment material type 1 class 2 is a phosphate-bound precision investment material for all precious, metal to ceramic, non precious alloys and pressable ceramics. Specially suitable for the production of crowns, inlays and veneers in the pressable ceramics and lithium disilicate ceramics area.

Due to the high quality of the product the reaction layer is extremely thin!

Techn. Data

Mixing proportions	100g : 22 ml
Mixing under the vacuum	60 sec.
Working time	6-7 min./ 21°C
Initial setting time	8-11 min.
Setting expansion	0,7 % - 2,11%
Setting time before warming up	20 min.

The K2 Press Universal investment is mixed with the K2 Liquid concentrate as mentioned in the table below. The expansion of the investment material can be regulated with the amount of distilled water mixed with the K2 Liquid concentrate. The total quantity of the liquid may not be exceeded (100g-22ml).

The more K2 Liquid Concentrate is added to the mixing liquid, the more expansion is going to be reached.

Liquid/ Water: Concentration (%):	100g		200g	
	Liquid (ml)	Dest. Water (ml)	Liquid (ml)	Dest. Water (ml)
100	22	-	44	1
95	21	1	42	2
90	20	2	40	4
85	19	3	38	6
80	18	4	36	8
75	17	5	34	10
70	15	7	30	14
65	14	8	28	16
60	13	9	26	18
55	12	10	24	20
50	11	11	22	22
45	10	12	20	24
40	9	13	18	26

Expansion:	Liquid	Dest. Water
Posterior	75 %	25 %
Premolar	75 % - 80 %	25 % - 20 %
Anterior	75 % - 80 %	25 % - 20 %
Veneer	70 %	30 %
Inlay	40 % - 50 %	60 % - 50 %
MOD Inlay	70 %	30 %
Onlay	85 % - 90 %	15 % - 10 %

Dokument:	Erstellt am/von:	geändert am/von:	Revision:	freigegeben am/von:	Seitenzahl:
BA	03.07.2019/TB	04.07.2019/TB	0	09.07.2019/TB	Seite 1 von 2

Storage

The storage of the powder and the special liquid must be done at a normal room temperature (21°C). In case the K2 Liquid for investment material is stored in a temperature below 10 °C, it will be subjected to be frozen and will not be suitable to be used. Storage shelf life of K2 Press powder und K2 Press liquid is 24 months.

Packing

Item Nr.: 360-1005	K2 Powder + Liquid	- 5,0 kg	(50x100 g + 1 Liter liquid)
Item Nr.: 360-1000	K2 Liquid	- 1000 ml	1 Liter bottle

Operating Instructions

Best and steady results are obtained when storing and working at a constant room temperature of 21°C. The K2 Press Universal investment material is mixed under vacuum for 60 sec. The mixing bowls must not be dry and not suitable for mixing gypsum. The mixing units might have an influence on the quality and your work, for that reason they must be regularly checked.

Usage

Put in the 850 °C pre-heated furnace **after 20 min.** The cylinder should be positioned in the furnace lightly inclined with the sprue former in the lower direction. The holding time in the furnace is 45-60 min. and should be increased in case multiple cylinders are placed in the furnace at the same time. Do not open the furnace for the first 20 min of the working process.

After the furnace temperature is reached the following holding time is to be maintained: 100 g cylinder – 45 min, 200 g cylinder – 60 min.

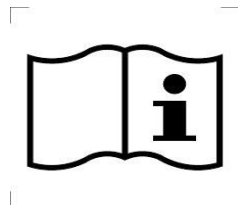
Deflasking and sandblasting

The K2 Press Universal investment material should be sandblasted with ca. 50my glas pearls. The blasting pressure should be reduced to 2 bar till the pressed objects are visible. Lithium disilicate press pellets generally have the "reaction layer" which has to be removed. The removal is done with 50my aluminium oxide under max. 2 bar pressure.

Important recommendations

The investment material contains Quartz. Do not BREATH DUST ! May cause delayed lung injury. The appropriate breath protection must be used in order to avoid these.

The above given instructions correspond to the actual technical status. We assure the top quality of our products. Any claim must be only made on the quality of our merchandise. We can not be responsible for the results of the work done outside the area of our influence. All the recommendations are to be considered as guiding values of our test laboratories.



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BA	03.07.2019/TB	04.07.2019/TB	0	09.07.2019/TB	Seite 2 von 2