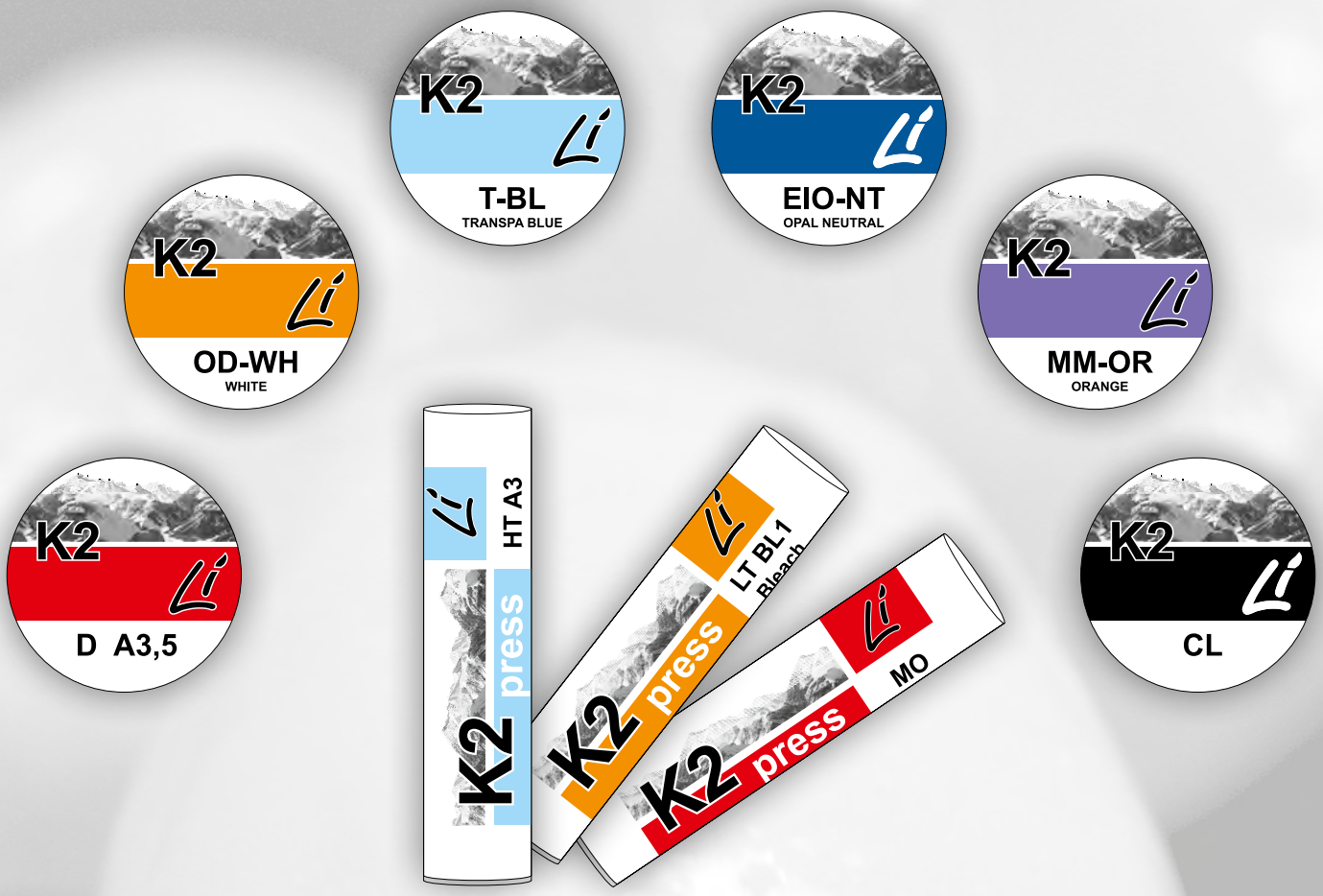


K2 Li

YETI DENTAL

OPERATING MANUAL

english

K2 Li

wax modeling with
CONTACT Modeling wax chip andcervical wax chip
by J. Peters (ashfree)

CONTACT by J. Peters
Contact plate,
Modeling wax chip ivory (ashfree) 25g,
Modeling wax chip sahara (ashfree) 25g,
Cervical wax chip wood (ashfree) 20g
780-0300

Effect - Modeling wax chip CONTACT
(ashfree), blue-transparent /
orange-transparent/
incisal-transparent each20g
739-6320

Modeling wax chip CONTACT
sahara (ashfree)
by J. Peters, 3x25g
738-6325

Modeling wax chip CONTACT
ivory (ashfree)
by J. Peters, 3x25g
738-6335

Cervical wax chip CONTACT
wood (ashfree)
by J. Peters, 3x20g
738-6320

CE 0123

K2 Li manual

K2 Li
The Lithium disilicate ceramic in the K2 Ceramic assortment from Company Yeti Dental. It includes a Press system, as well as a layered ceramic, which can be also easily used for zirconium restorations by professional dental technicians.

This affects a cost-reducing for every laboratory.

The system impresses with:
- easy handling
- a natural fluorescence and translucency
- high stability
- natural aesthetics

Indications
Veneers
Onlays
Inlays
Full crowns
Partial crowns
3-unit bridges

Contraindications
Free-end bridges
Parafunctions (bruxism)
Temporary insertion
Known allergies to components of K2 Li press
All applications not listed under indications

Implementation of the Wax modeling in K2 Li

1. full anatomic, Staining technique

transfer in K2 Li Press

finished work after staining

2. Cut-back technique

transfer in K2 Li Press

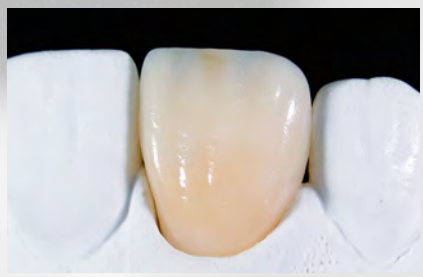
finished work after layering and staining

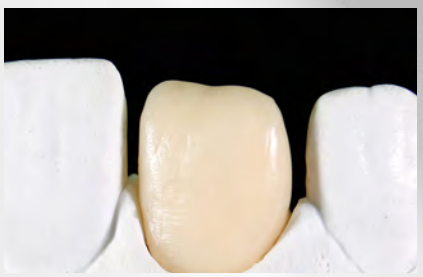
3. Layering technique

transfer in K2 Li Press

finished work after layering and staining

Modeling in wax





Wax modeling with CONTACT Modeling wax ivory and CONTACT Effect wax

1. full anatomic, Staining technique

The restoration is fully anatomically modeled and after pressing characterized with Stains.


2. Cut-back technique

The cut-back technique reduces the incisal / occlusal area of the modelation.
After pressing, the reduced part will be individualized with K2 Li ceramic powders.


3. Layering technique

The restoration (press frame) will be modeled in a reduced tooth shape.
It is important that the framework is at least minimum 50% of the final tooth shape.
After pressing, coat it completely with K2 Li layered ceramic.


K2 Li Press ingots

The Press ingots (3g) are offered in 3 different translucencies:

	Art.-No.	A1	A2	A3	B1	B2	C1	BL1	BL2	BL3	BL4	MO1
HT Highly translucent	387-80..	..01	..02	..03	..11	..12	..21	..31	..33	..32	..34	
LT Low translucent	387-81..	..01	..02	..03	..11	..12	..21	..31	..32	..33	..34	
MO Medium opaque	387-82..											..01

indication

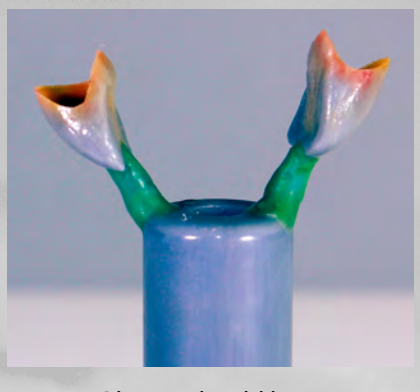
		HT Highly translucent	LT Low Translucent	MO Medium opaque
Processing technique	**full anatomic / Staining technique**	**v**	**v**	
	Cut-Back technique	**v**	**v**	
	Layering technique			**v**
indication	**Thin veneer**	**v**	**v**	
	Veneer	**v**	**v**	
	Inlay	**v**	**v**	
	Onlay	**v**	**v**	
	Partial Crown	**v**	**v**	
	Anterior Crown	**v**	**v**	**v**
	Posterior Crown	**v**	**v**	**v**

Instigating and embedding

diameter of the wax wire: 2,5 – 3,0 mm
Length: 5 – 8 mm
Total height: max. 16 mm

Sprue angle Base: 45°
Sprue angle object: axial
Distance objects: min. 3 mm
Distance upside: 10 mm

At Bridges **always fix it at the coping / crown** never at the pontic



Objects should have **the same height**

single crown pressing **always 1 blind wax wire**

wax weight = Modeling + wax wire		
wax weight	pellets	cylinder
up to 0,9 g	1 x 3 g	100g / 200g
up to 2,0 g	2 x 3 g	200g

Then embed according to the **instructions of the investment manufacturer.**

We recommend the use of the **K2 Press-universal investment material!**

preheat

Important! Be sure to follow the instructions of the investment manufacturer!

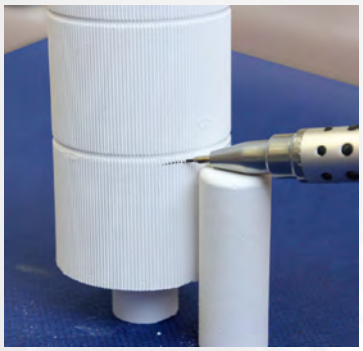
Pressing / pressing program

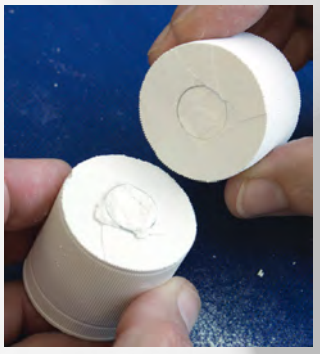
muffle size	assembly	start temperature	heating rate	final temperature	hold time	press time
100g	1x3g	700°C	60°C	910°C	18 min	3 min
200 g	1x3g / 2x3g	700°C	60°C	920°C	20 min	3 min

Attention!
Depending on the press result and furnace, the press temperatures **must be readjusted!!**
The higher the pressing temperature, the larger the reaction layer, and the harder it is to remove it.
If the reaction layer is too strong, lower the temperature.
Increase the temperature in case of defects in the press.

Devesting, blasting and separating

Blast with 50 micron glass beads.
As soon as the objects become visible, continue with a maximum of 2 - 3 bar pressure.
Make sure that the reaction layer is completely removed!

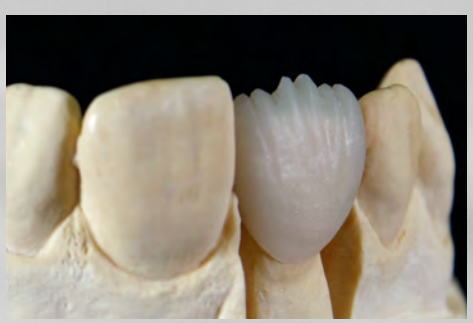




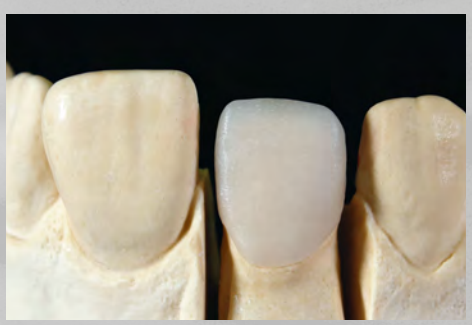
staining and layering technique

Fully anatomical restorations can be individually stained as desired with K2 Stains universal.
Finally glaze with K2 GL press glaze paste.

full anatomic, Staining technique



Cut-back technique



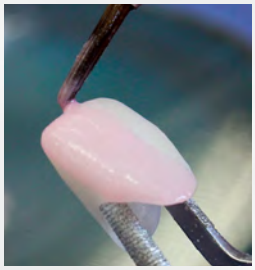
Layering technique

K2 LI layering ceramic

K2 Li is a ceramic for the lithium disilicate and zirconium dioxide frameworks. The layered ceramic impresses with its brilliant fluorescence, naturalness and biocompatibility. Even with the simplest layering technique, the natural tooth substance can be reproduced.

Liner/Washbrand

The framework material should be at least 50% of the total thickness.
Depending on the color specification, a thin layer of dentin is fired onto the framework.
This wash brand can also be individualized by stains.



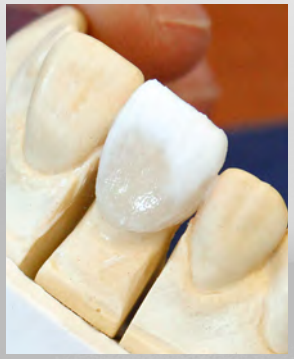
Layering

1. fireing

Cut-back technique:

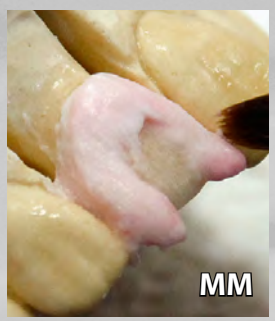
The tooth shape is completed individually with incisal and transparent powders after color specification.



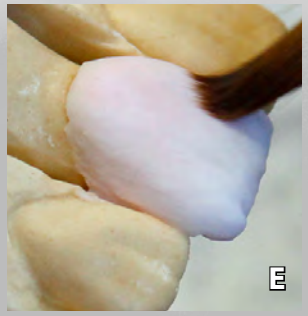



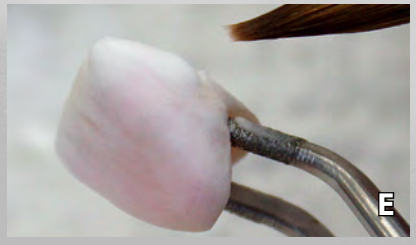

Layering technique

Apply dentin in a reduced or completely anatomical tooth shape and finally reducing for the incisal part proportion. Mamelons can be thinly layered with opaque dentine or special mamelon powders.



Build up the incisal area with various transpas and then complete with incisal powder.
Slightly oversize to compensate the shrinkage in the furnace.





Complete contact surfaces with cutting material

correction fireing

2. Burningof cut-back and layering technique

Prepare and clean the crown before corrective fireing.
To correct the tooth shape:

for a small apply: Transparent / incisal
for a bigger apply: at the dentin area, mix dentin with transpa or incisal.

Glaze:
Color characterizations are individualized with K2 Stains.

Surface textures achieve more liveliness and color reflections!

Cut-back technique

Layering technique

3. Glaze firing / glaze paste
full anatomic, Staining technique

1. Scoop out a small amount of glaze paste and in a separate vessel with glazing liquid mix to a homogeneous consistency
   - thin consistency = low gloss
   - thick consistency = high shine
   Never bring it into contact with water!
2. Apply the glaze paste thickly!
3. Lightly vibrate/shake to even distribution of the paste.
4. Glaze firing according to the firing table the ceramic manufacturer.

full anatomic, Staining technique

Caram/sta

Caramista - modeling brush for ceramics
fine brush with wooden handle

Caram/sta N

Caramista - modeling brush for ceramics
Natural hair brush made of high quality Kolinsky hair

VARIO S - Magnetständer
- hanging storage of brushes to protect the brush tips

Ceramik Humidor
Ceramic mixing plate

Stain Humidor
Humidity support plate for stains

K2 Li Enamel allocation table																	
Vita color	Bleach	A1	A2	A3	A3,5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
dentin	Bleach	A1	A2	A3	A3,5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
incisals	E-BL	E58	E58	E59	E59	E60	E57	E59	E59	E59	E60	E59	E59	E60	E60	E59	E59

K2 Li - Physical Properties				
Mass Powders	solubility [µg/cm2]	flexural strength [MPa]	middle WAK CTE (25/500°C) [ppm/K]	Glass transition point
	max. 100 µg/cm2 (± 5)	min. 50 MPa (± 9)	2 fireing / 4 fireing	TG [°C] ± 10
Dentine, Opaque Dentine Dentine Modifier Enamel, Effect Enamel Clear, Transpa	16	>90	9.5 / 9.5	520

Firing parameters							
	starting temperature	dry	increase temperature	final temperature	hold time	vacuum	result
Dentin Wash	430°C / 806°F	4 Min	45°C/Min / 113°F/Min	780°C / 1436°F	1 Min	yes	Slightly shiny
Dentin 1	430°C / 806°F	6 Min	45°C/Min / 113°F/Min	780°C / 1436°F	1 Min	yes	Slightly shiny
Dentin 2	430°C / 806°F	6 Min	45°C/Min / 113°F/Min	775°C / 1472°F	1 Min	yes	Slightly shiny
Shine with glaze	450°C / 842°F	4 Min	45°C/Min / 113°F/Min	765°C / 1409°F	1 Min	no	shiny
Gloss without glaze	450°C / 842°F	4 Min	45°C/Min / 113°F/Min	780°C / 1436°F	1 Min	no	shiny

The fireing parameters given above are standard values which must always be adapted to the particular furnace used and the situation of the furnace. The important factor is the right fireing result.

Product overview K2 Li Layered ceramic																
Color	Qty.	A1	A2	A3	A3,5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
Dentin D-.. Art.-No. 387-10..	20g	A1 ..01	A2 ..02	A3 ..03	A3,5 ..04	A4 ..05	B1 ..06	B2 ..07	B3 ..08	B4 ..09	C1 ..10	C2 ..11	C3 ..12	C4 ..13	D2 ..14	D3 ..15	D4 ..16
Bleach / Gingiva Art.-No. 387-10..	20g	BL1 ..17		BL3 ..19		G-SP (soft pink) ..18					G-DR (dark red) ..25			G-R (red) ..30			
opaque dentine Art.-No. 387-20..	20g	OD-HO (HONEY) ..01								OD-WH (WHITE) ..02							
incisals Art.-No. 387-30..	20g	E-57 ..01		E-58 ..02		E-59 ..03					E-60 ..04			E-BL (Bleach) ..05			
intensive incisals Art.-No. 387-40..	20g	EI-WH (WHITE) ..01		EI-YE (YELLOW) ..02						EIO-NT (OPAL NEUTRAL) ..03				EIO-BL (OPAL BLUE) ..04			
Transparent materials Art.-No.. 387-50..	20g	TN (NORMAL) ..01		TR-VL (VIOLET) ..02		T-BL (BLUE) ..03					T-YE (YELLOW) ..04			T-OR (ORANGE) ..05			
Clear	20g	CL Art.-No. 387-5006															
Mamelon Art.-No. 387-60..	20g	MM-OR (ORANGE) ..01					MM-HO (HONEY) ..02							MM-IV (IVORY) ..03			
Modeling Liquid	50ml 250ml	ML UNIVERSAL Art.-No. 387-9050 ML UNIVERSAL Art.-No. 387-9060															
Glaze fluid	50ml	GF UNIVERSAL Art.-No. 387-9150															

Product overview Stains Universal												
Stain Art.-No. 387-83..	2g	ST-A ..01	ST-B ..02	ST-C ..03	ST-D ..04	ST-5 WHITE ..05	ST-6 HONEY ..06	ST-7 GREY ..07	ST-8 BROWN ..08	ST-9 BLUE ..09	ST-10 PINK ..10	ST-11 RED ..11

Product overview K2 Li Press-ingots											
Press-ingots HT High translucent Art.-No. 387-80..	5x3g	HT A1 ..01	HT A2 ..02	HT A3 ..03	HT B1 ..11	HT B2 ..12	HT C1 ..21	HT BL1 ..31	HT BL2 ..33	HT BL3 ..32	HT BL4 ..34
Press-ingots LT Low translucent Art.-No. 387-81..	5x3g	LT A1 ..01	LT A2 ..02	LT A3 ..03	LT B1 ..11	LT B2 ..12	LT C1 ..21	LT BL1 ..31	LT BL2 ..32	LT BL3 ..33	LT BL4 ..34
Press-ingots MO Medium opaque	5x3g	MO Art.-No. 387-8201									

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„Standstill means regression,
An active approach to change is the key to success.„

YETI DENTAL

YETI Dentalprodukte GmbH · Germany
www.yeti-dental.com · E-Mail: info@yeti-dental.com

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