



# Instructions for use

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## 1. General:

The K2 MyStains system developed by Yeti is used to characterise the colour of ceramic restorations in the dental field. These instructions contain instructions that must be followed to ensure proper use and compliance with safe conditions. It is essential to read these instructions and in particular the notes before using K2 MyStains stains for the first time

### 1.1. My Stains Set *Colour assortment 12x2g. Structure masses 4x2g. Liquid 2x50 ml*

Basic colours 2g. Art. No. 388-....	ST-A -0001	ST-B -0002	ST-C -0003	ST-D -0004							
Painting colours 2g Art. No. 388-...	ST-S1 -0011	ST-S2 -0012	ST-S3 -0013	ST-S4 -0014	ST-S5 -0015	ST-S6 -0016	ST-S7 -0017	ST-S8 -0018	ST-S9 -0019	ST-10 -0020	ST-S11 -0022
Painting colours 2g Art. No. 388-...	ST-S13 -0023	ST-S14 -0024									
Structural mas- ses 2g Art. No. 388-....	SM-B-L -0108	SM-B-M -0109	SM-B-D -0110	SM-E -0111	SG-L -0112	SG-D -0113	SM-N -0114				
	GL				GL-F						
Art. No. 388-....	-0100 (10g)		-01002 (2g)		-0101 (10g)	-01012 (2g)					
Liquid Art. No. 388-....	Standard Liquid GL -0150 (50ml)		-0250 (250ml)		Colours Structure Liquid LL -1150 (50ml)		-1250 (250ml)				
K2 Glazing paste GL universal			336-0010								
K2 Glazing paste GL univ. f.			336-0020								
K2 Glaze spray GL			336-0075								
K2 glaze spray GL fluorescent			336-0076								

### 1.2. Manufacturer's address:

 YETI Dentalprodukte GmbH, Industriestraße 3, D-78234 Engen, Germany  
Phone: 07733-94100 Fax: 07733-941022 e-mail address: info@yeti-dental.com  
www.yeti-dental.com Dental technical questions: 07733-9410-20

2. K2 MyStains powders and liquids are universal stains and glazes for processing by dental technicians. professionals to fulfil the dental restorative needs of patients. Powder and liquid are to a liquid to paste-like consistency. All mixed stains are used to colour the ceramic regardless of whether a few colour shades lighter or darker are required. MyStains structural materials have been developed for the microlayering technique and may only be used on lithium disilicate or zircon restorations. MyStains system components are closed and stored in a frost-proof place. and away from contamination.

## 3. Indication

K2 MyStains stains and glazing materials and Standard Liquid GL are medical products for colouring ceramic materials such as lithium disilicate, zirconium dioxide and ceramics with a CTE (25°C-500°C) of  $8.6-13.3 \times 10^{-6} \text{ xK}^{-1}$ . K2My Stains structure materials (up to a layer thickness of 0.5 mm possible) and Structur Liquid are only to be used for slight dimensional corrections on lithium disilicate and zirconium dioxide framework materials.

### 3.1 Instructions for use

Only trained and experienced dental technicians have the skills required for the proper use of these medical devices. products. The product K2My Stains is a semi-finished product and must be processed professionally and according to proven methods. The ceramic restorations to be stained or built up with structural materials must be absolutely clean and free of grease. (Ultrasonic device or water vapour device) The specified firing temperatures must be

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observed and the furnace calibrated. Finally, the glazing material or glazing paste mixed with glazing liquid is applied. Shake the liquids well before use.

## 3.2 Painting technique with Standard Liquid GL

All colours can be mixed with the standard Liquid GL to a **liquid-creamy** consistency. Please do not use metal tools for mixing. The colours are applied as usual. This means that the colours run a little more if the glaze is applied before painting or a little less if the glaze is applied after the stain firing. In both cases it is difficult to realise a clear structure, such as a fusion crack.

## 3.3 Firing tables

Firing table glaze/stain firing for all ceramics listed below (see point 3) as well as pure sintered zirconia (blanks) and monolithic lithium disilicate (pressed)

If milled from blue CAD/CAM, please finish crystallising before glazing

K2 My Stains All Stains and Glaze	Preheating time	Drying time	Raise of temp.	Vacuum	Firing temperature range	Holding time	Appearance
Low Fusing Ceramic (K2 LF)	480°C	4min	45°C/min	yes	750°C - 770°C	1min	shiny
High Fusing Ceramic (K2 HF)	480°C	4min	45°C/min	yes	860°C - 880°C	1min	shiny
Lithium ceramic (k2 Li)	450°C	4min	45°C/min	yes	750°C - 780°C	1min	shiny
Zirconceramic (K2 Zi)	480°C	4min	45°C/min	yes	790°C - 810°C	1min	shiny
Zirconium Dioxide (Blanks)	450°C	6min	45°C/min	yes	850°C - 950°C	1min	shiny
Lithium Disilicate (Blocs)	450°C	4min	45°C/min	yes	730°C - 760°C	1min	shiny

The above-mentioned firing parameters are guide values that are always adapted to the kiln used and the situation of the kiln. The right firing result is crucial

## 3.4 Painting technique and microlayering with Structur Liquid LL

All stains and textured paints can be mixed with StructureLiquid LL to a **honey-like paste-like** consistency. Please do not use metal tools for mixing. The colours are applied in small steps, if necessary with several firings. The colours create a clear and intensive structure when painted. An enamel crack is much easier to realise. **After** the stains have been fired, the texture materials are applied and fired according to the following firing charts. The layer thickness of the fired texture material must not exceed 0.5 mm.

Special painting brushes from the Caramista V range are highly recommended due to the length and strength of the hair.

The structural materials can therefore be used to make minor dimensional changes to the lithium disilicate or zirconium dioxide restorations at this stage. They cannot be applied to other veneering ceramics.

The firing result already has a "self-glaze effect" after the first firing, so that ideally no further glaze firing is required on the structural materials. However, the degree of lustre can also be adjusted according to the situation by adjusting the firing temperature (+/- 5°C) and/or by mechanical polishing.

Unglazed areas must be treated with glaze compound and fired.

Depending on requirements, material can also be applied a second time and fired at the same temperature.

### Firing table on zirconium dioxide for K2 MyStains Structure

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Preheating	Drying time	Closing time	Climb rate	Vacuum	Firing temperature.	Holding time	Long-term cooling
430°C	3min*	3min*	40°C	100%	815°C	1min	0-6min**

\*with maximum layer thickness application of 0.5mm, extend to 5min each time

\*\* for solid restorations up to 6 min long-term cooling

## Firing table on lithium disilicate (pressed or crystallised) for K2 MyStains Structure

Preheating	Drying time	Closing time	Climb rate	Vacuum	Firing temperature	Holding time	Long-term cooling
430°C	3min*	3min*	40°C	100%	775°C	1min	0min

\*with maximum layer thickness application of 0.5mm, extend to 5min each time

The firing parameters listed above are guide values that should always be adapted to the kiln used and the situation of the kiln. If several stain firings are required, the firing temperature can be lowered slightly.  
The right firing result is crucial.

### 4. Notes on storage

K2 MyStains powders and liquids must be resealed immediately after removal and can be used until the product is completely used up. A visual inspection of the stains and textured compounds should be carried out occasionally to prevent colour mixing or to dispose of contaminated colours. The product can generally be stored frost-free at room temperatures of 4-28°C.

Before inserting the denture into the mouth, the following must be done in accordance with good clinical practice cleaning must be carried out.

### 5. Contraindication

K2 MyStains Structure must not be used for ceramic materials that are not mentioned under point 3.

None of the system components may be mixed with water or come into contact with water.

Do not use MyStains components if there is any incompatibility with the components they contain. Do not use MyStains Structure if layer thicknesses of more than 0.5 mm would have to be applied and the transition from the framework material to the Structure material would be in the functional area. Do not apply MyStains Structure to the framework material without prior wash or stain firing

### 6. Safety instructions

Please read the relevant passages in the safety data sheet and observe national regulations (EC)

No. 1272/2008) of the declaration of conformity. In particular, care must be taken to avoid inhalation of ceramic dust during processing. (e.g. protective masks)

### 7. Guarantee

K2 My Stains stains, textured paints and liquids are guaranteed against manufacturing defects due to material faults in accordance with the expiry date.

The guarantee does not apply to:

- improper use or non-compliance with the instructions given in this description,
  - non-compliant storage or if the K2 My Stains liquids dry out
  - force majeure or transport damage to the delivered parcel for which the transport company is liable.
- no reservations were made.

Within the scope of the guarantee, Yeti Dentalprodukte GmbH will provide a free replacement for the almost unused and still liquid liquid. The condition for this is the return of the defective parts for analysis.

**Any further compensation is excluded.**

#### 7.1 Customer service:

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In the event of any problems in connection with processing or suggestions for improvement, we recommend that you make a note of the batch number and contact Yeti Dentalprodukte GmbH.

## 7.2 Waste disposal

After staining the restoration or inserting the denture into the mouth, the product must be treated as hazardous medical waste. Please observe your state, federal and regional regulations.

## 8. For attention

**All legally applicable regulations on ordering, processing and disposal must be observed**

## 9. Physical and chemical composition

	Properties	Unit of measurement	Value	Standard
	Coefficient of thermal expansion (25-500°)	10 <sup>-6</sup> xK <sup>-1</sup>	7,5-8,5	-
	Glass transformation point	°C	540/550 ± 20	-
	Solubility	µm/cm <sup>2</sup>	20-38	<100-max.100
	Flexural strength	MPa	65	>50
	Average grain size	D90% (Ym)	45	-
	Classification: Dental Ceramics Type I			
	The tested materials comply with the EN ISO 9693:2019 and 6872:2019 standard. The technical and physical values stated refer to samples produced in-house and the measuring instruments located there.			

### 9.1 Side effects/reports

Undesirable side effects are not known!

If you become aware of any adverse effects, reactions or similar incidents caused by the use of this product, including those not listed in the instructions for use, please report them directly to the appropriate reporting authority by selecting the correct authority in your country accessible via the link [https://ec.europa.eu/health/md\\_sector/contact\\_en](https://ec.europa.eu/health/md_sector/contact_en)  
As well as on our internal e-mail address: [info@yeti-dental.com](mailto:info@yeti-dental.com)

In this way, you are helping to improve the safety of this product.

### 9.2 Residual risk

Possible complications and residual risks for stains and glazes in general and not specific to our materials are:

- Breakage or chipping/detachment of the components/ceramic work and possible swallowing of the components
- Plaque deposits
- Periodontitis
- Marginal gaps in general and in the transition area of ceramic work
- Mucous membrane irritation
- Intolerance and allergy potential

These risks must be communicated to the patient by the specialised personnel (e.g. dental staff).

Chemical composition	Wt% Stains	Wt% Structure
SiO <sub>2</sub>	55-65 %	65-72%
Al <sub>(2)</sub> O <sub>3</sub>	7-8 %	8-10%
C <sub>2</sub> O	11-13%	5-6%

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Na <sub>2</sub> O	10-13%	10-12%
CaO	2-5%	4-6%
Li <sub>2</sub> O	---	<1%
BaO	2-5%	0,5-1,5%
CeF <sub>3</sub>	<1%	<1%

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## 10. Symbols

	Manufacturer
CH-REP	Authorised person Switzerland
	CE
R <sub>x</sub> only	FOR DENTAL PROFESSIONALS ONLY (USA)
	Non-sterile product
	Catalogue number
	Batch number
	Date of manufacture
	Can be used until
	Medical device
	Follow the instructions for use
	Not reusable
	UDI symbol
	HIBC mark

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## 11. Packaging and contents

Item number		Designation	Contents
388-0001		K2 MyStains ST-A	2 g
388-0002		K2 MyStains ST-B	2 g
388-0003		K2 MyStains ST-C	2 g
388-0004		K2 MyStains ST-D	2 g
388-0011		K2 MyStains ST-S1, white	2 g
388-0012		K2 MyStains ST-S2, honey	2 g
388-0013		K2 MyStains ST-S3, orange	2 g
388-0014		K2 MyStains ST-S4, beige	2 g
388-0015		K2 MyStains ST-S5, caramel	2 g
388-0016		K2 MyStains ST-S6, darkbrown	2 g
388-0017		K2 MyStains ST-S7, brickred	2 g
388-0018		K2 MyStains ST-S8, skyblue	2 g
388-0019		K2 MyStains ST-S9, grey	2 g
388-0020		K2 MyStains ST-S10, royal blue	2 g
388-0022		K2 MyStains ST-S12, Illusion violet	2 g
388-0023		K2 MyStains ST-S13, uni red	2 g
388-0024		K2 MyStains ST-S14, uni gingiva	2 g
388-0100		K2 MyStains Glaze Powder GL	10 g
388-0101		K2 MyStains Glaze Powder GL-F (fluorescent)	10 g
388-0108		K2 MyStains Structure Body SM-B-light	2 g
388-0109		K2 MyStains Structure Body SM-B-medium	2 g
388-0110		K2 MyStains Structure Body SM-B-dark	2 g
388-0111		K2 MyStains Structure Enamel SM-E	2 g
388-0112		K2 MyStains Structure Gingiva light SG-L	2 g
388-0113		K2 MyStains Structure Gingiva dark SG-D	2 g
388-0114		K2 MyStains Structure neutral SM-N	2 g
388-0150		K2 MyStains Glaze Standard Liquid GL	50 ml
388-0250		K2 MyStains Glaze Standard Liquid GL	250 ml
388-1150		K2 MyStains Colors-Structure Liquid LL	50 ml
388-1250		K2 MyStains Colors-Structure Liquid LL	250 ml

Item number		Designation	Contents
315-3000		CARAMISTA -V- Paint Brush No. 00 for ceramic	2 pieces
315-3001		CARAMISTA-V-Paint-Brush No.0 for ceramic	2 pieces
315-3002		CARAMISTA-V-Paint-Brush No.1 for ceramic	2 pieces
315-4000		CARAMISTA-V-Opaquier/Bonder Brush for ceramic	2 pieces

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