



Duceram Kiss

Product information
and instruction for use

For the veneering
porcelain Duceram Kiss



Duceram

Keep it simple and safe.



DeguDent

A Dentsply International Company



Indications for use

- Duceram Kiss is a veneering porcelain specifically intended for veneering crown and bridge frameworks made of dental alloys with a CTE range 13,8–15,4 $\mu\text{m}/\text{m}\cdot\text{K}$ (25–600 °C).
- Use only with alloys with a solidus temperature of at least 1030 °C
- For dental use only

Contraindications

- Suitable only for the indications listed above

Warnings

Undesired side effects of these medical products are extremely rarely to be expected with proper processing and application. Immunoreactions (e.g. allergies) and/or local unpleasant perceptions (e.g. taste irritations or oral mucosa irritations), however, cannot completely be excluded on principle. If you know any undesirable side effects – also in doubtful cases – then please communicate them to us.

In case of hypersensitivity of the patients against Duceram Kiss veneering porcelain or one of the ingredients, this medical product must not be used or only used under strict supervision by the treating physician/dentist.

Known cross-reactions or interactions of the medical product with other medical products or materials existing in the mouth must be taken into account by the physician/dentist when using the medical product.

Please pass on all the above-mentioned information to the treating physician/dentist, when processing this medical product for an individually manufactured object. Notify the dentist or physician in charge of all factors described above if you use this medical product for a custom construction.

- Do not inhale abrasive dusts

Precautions

When working with these materials, make sure to comply with the Instructions for Use and the pertinent Material Safety Data Sheets (MSDS).

Adverse reactions

We are not aware of any risks and/or side effects related to Duceram Kiss veneering porcelain.

Technical data

- CTE dentine: 13,0 $\mu\text{m}/\text{m}\cdot\text{K}$ (25–600 °C)
- Dental ceramics, type 1, class 2–8 according to DIN EN ISO 6872
- Metal-ceramic bond, flexural strength and chemical solubility according to DIN EN ISO 9693

Alloy selection

- Duceram Kiss is compatible with high-gold and reduced-gold alloys as well as non-precious alloys. Ask the alloy manufacturer about the alloy's composition and coefficient of thermal expansion. If the cooling times (below) are observed, bonding alloys with a CTE of 13,8–15,4 $\mu\text{m}/\text{m}\cdot\text{K}$ (25–600 °C) can be recommended.

Contraindicated	< 13,8
No tempering/long-term cooling	13,8 to 14,5
3 min. tempering/long-term cooling	14,6 to 15,4
Contraindicated	> 15,4







Duceram Kiss does not discolour on alloys containing silver. Nevertheless, it is recommended to clean the ceramic ovens and all carriers regularly.

Market launch: March 2004

Transport and storage

- Liquids: Store containers tightly closed at temperatures above 10 °C.
- Protect powders and pastes from moisture.

Symbols on product labels

REF	Product code
LOT	Batch or lot number
	Use before
	Consult instructions for use
	Consult instructions for use
	10 °C Lower Temperature limit
	Keep dry
	Do not reuse



The ceramic competence

DeguDent – your specialist for veneering ceramics 4

Kiss – Keep it simple and safe

Kiss – the veneering concept 5–7

Kiss means further development 8

Working technique

Preparation before layering 9

The porcelain margin technique 10–11

Aesthetics well-defined 12

Aesthetic Line Base 13

Aesthetic Line Individual 14–16

Service

Firing recommendations 17–19

Shade combination table 20

Assortments 21

Abbreviations 22

Notes 23



DeguDent – your specialist for veneering ceramics

**DeguDent –
innovator and technology leader in dental ceramics**

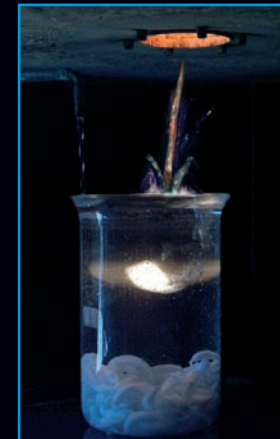
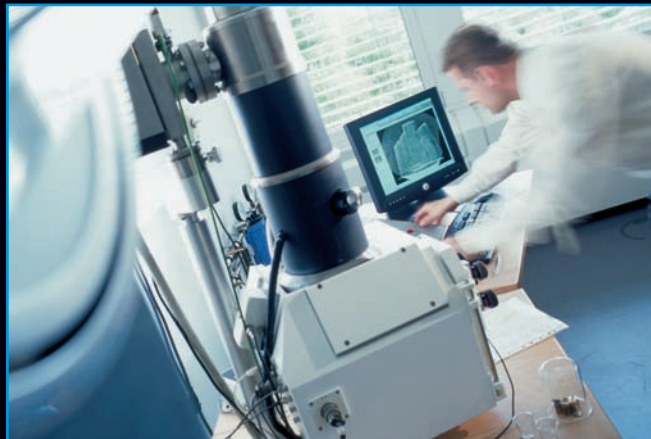
Ceramic materials are gaining more and more importance. Ceramics combine aesthetics, durability and biocompatibility in an almost ideal manner.

DeguDent maintains its own research and development department and produces its ceramic materials in-house. This is why DeguDent is so successful when it comes to innovation.

DeguDent offers special veneering ceramics and framework

ceramics for the complete range of crown and bridge restorations, from Duceragold Kiss veneering ceramics and Cergo pressable ceramics all the way to cercon-zirconium oxide, the dental material of the future.

With the new Duceram Kiss veneering ceramics, you can continue to meet the demands of the increasing number of innovative dentists and more pretentious patients.



Kiss – the veneering concept

Nothing comes easier than making things complicated, nothing harder than making things easier. Therefore, real development lies in simplifying and not complicating things.

With only 73 porcelain powders, Duceram Kiss sets new standards in functional ceramics.

And anyone who is skeptical about the beauty of this system will be pleasantly surprised, because the shade reproduction has been greatly improved.

But how can the usual 110 to 120 ceramic powders be reduced so much without losing in quality?

Using the following 3 solutions:

First of all, with new pigmentation of the dentine and opaque powders. In this way the need for intensifiers when layering basic V-Shades is eliminated, except in individual cases.

Secondly, by categorising intensifiers and incisal powders more specifically.

The third point is the development of a new kind of didactics, which intelligently combines shades, effects and materials. This new complete system fits into a purpose designed case with which you are able to complete 100% of all restorations.

... the time has come for a new direction in the veneering technique ...

Jürgen Braunwarth

CMDT Jürgen Braunwarth



The ideal partners for Duceram Kiss



Degudent Kiss and BiOcclus HT are two high precious alloys that you can use to fulfill your patient's every wish in the best way conceivable.

Degudent Kiss offers excellent strength and is simple and safe to process.

Keep it simple and safe:

- Low CTE, no long-term cooling required
- High distortion resistance, hence ideally suited for extensive implant restorations
- High heating rates possible
- Suitable for bridges of any width
- Light-coloured oxide

BiOcclus HT, our proven and robust bioalloy, has been successfully used by dental technicians for years. The alloy is free of both palladium and copper and has a rich yellow hue.

Keep it simple and safe:

- Simple and safe in casting
- Excellent polishing properties
- Simply and quickly pickled
- Broad range of indications
- Light-coloured oxide

Technical Specs.	Degudent Kiss	
Composition in %:	Au: 79.4 Pt: 10.5 Pd: 6.0 Ag: 1.3 In: 1.5 Ir: 0.1 Ta: 0.2 Zn: 1.0	
Melting range:	1140 – 1220 °C	
CTE:	14.1 $\mu\text{m}/\text{m}\cdot\text{K}$ (25 – 500 °C) 14.3 $\mu\text{m}/\text{m}\cdot\text{K}$ (25 – 600 °C)	
Hardness:	a: 230 HV5	g/b: 220 HV5
Yield strength – 0.2 %:	a: 590 N/mm ²	g/b: 590 N/mm ²
Tensile strength:	a: 670 N/mm ²	g/b: 670 N/mm ²
Elongation at fracture %:	a: 4	g/b: 6

Technical Specs.	BiOcclus HT	
Composition in %:	Au: 85.4 Pt: 12.0 Rh: 0.4 Ir: 0.1 Zn: 1.8 Nb: 0.1 Fe: 0.2	
Melting range:	1055 – 1130 °C	
CTE:	14.5 $\mu\text{m}/\text{m}\cdot\text{K}$ (25 – 500 °C) 14.7 $\mu\text{m}/\text{m}\cdot\text{K}$ (25 – 600 °C)	
Hardness:	a: 230 HV5	g/b: 220 HV5
Yield strength – 0.2 %:	a: 530 N/mm ²	g/b: 510 N/mm ²
Tensile strength:	a: 630 N/mm ²	g/b: 610 N/mm ²
Elongation at fracture %:	a: 6	g/b: 6



Keep it simple and safe



Kiss colour wheel



Kiss portioner

Keep it simple and safe – this is of course also the motto that guided the development of the Kiss colour wheel. This colour wheel lets you assign the respective Kiss porcelain powders, quickly and simply, by analogy with the V colours. Once you set the corresponding V-shade, the lower five fields will automatically show all other colour assignments.

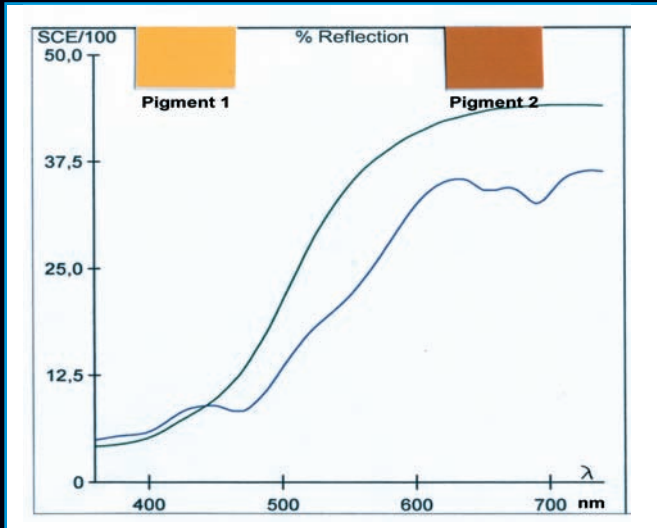
The upper, light-blue area shows you the data for the basic layering techniques such as opaque, dentine, incisal and

margin materials. The lower, dark-blue area shows powders such as power chromas, Flu Inside powders or opal incisals for the individual layering technique.

The Kiss portioner is the logical extension of the colour wheel showing 1:1 mixtures, in the individual characterization field, for example for power chromas. Using the portioner tool allows absolute reproducibility when mixing two powders.

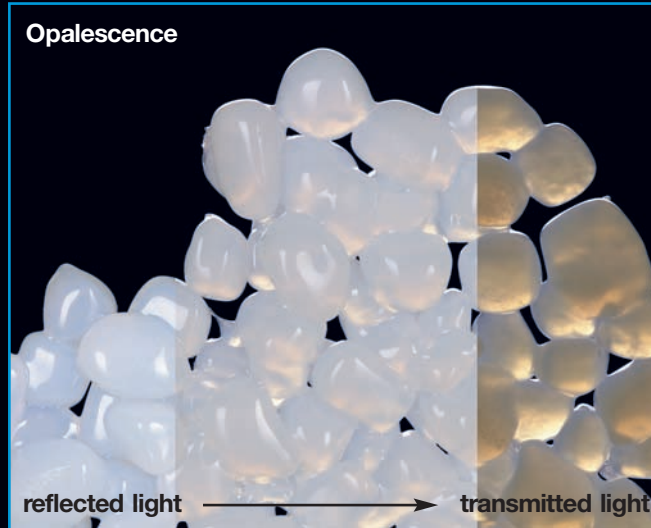


Kiss means further development



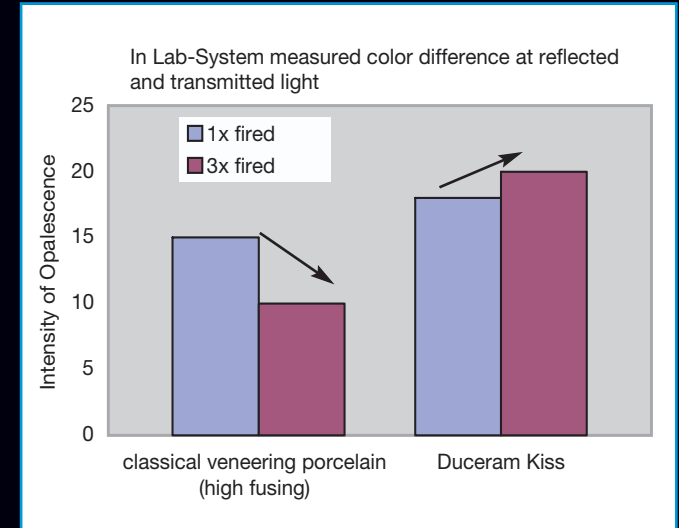
Color reliability

By considerably optimizing the number of pigments in the ceramic material, Duceram Kiss marks another success in terms of increasing color reliability in relation to the V shades. Optimizing the number of pigments is also a major part of the solution to the problem of metamerism, where the appearance of the shade varies depending on the various sources of



Aesthetic

light such as typical indoor lighting or outdoor daylight. When it comes to aesthetics, Kiss will allow you to achieve a top-quality veneer in a manner that is both faster and simpler. The opal material – which is one of the aspects responsible for the natural and light-dynamic appearance of the restoration – has been significantly optimized using a patented



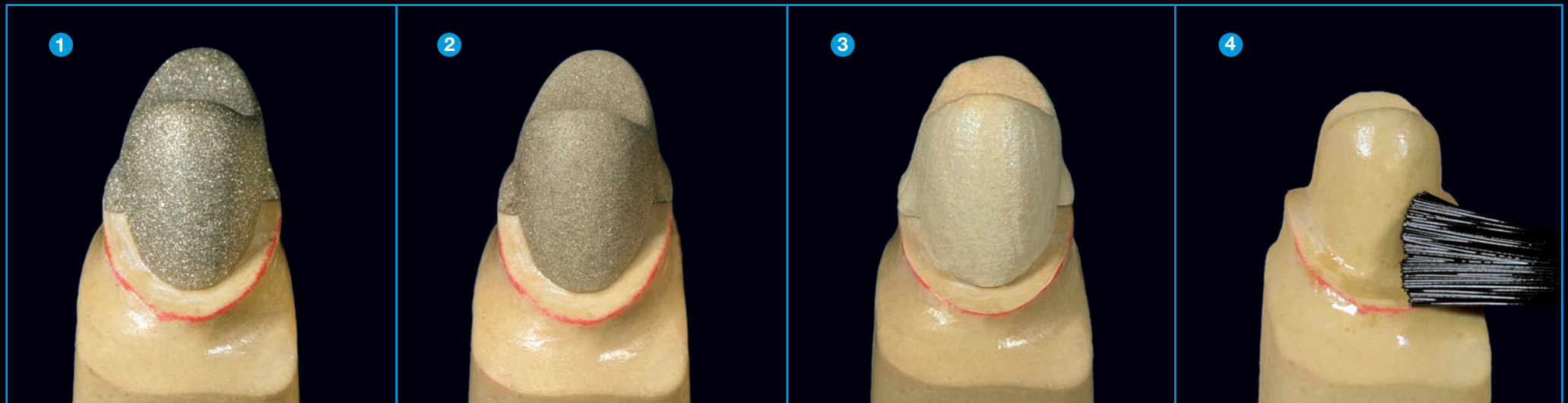
Processing reliability

production process. In classical high-fusing veneering ceramics, the opalescent effect can get lost after a number of firing cycles. In Duceram Kiss, this effect will visibly persist. Kiss – Keep It Simple and Safe – Duceram Kiss stands another time for further simplified handling and increased processing reliability.



Preparation before layering (this example is prepared for a porcelain margin)

*Dental restoration:
CMDT Jürgen Braunwarth*



1. Framework preparation:

After finishing with tungsten-carbide cutters, unless otherwise recommended by the alloy manufacturer, sandblast the alloy framework with aluminium oxide (100–150 µm) at a pressure of 2 bars (non-precious alloys: up to 4 bars).

When creating a ceramic margin (such as the one shown above), use a carbide bur to reduce the crown margin so it ends 0.5–0.8 mm above the lowest part of the chamfer or shoulder. Also, care must be taken to ensure that the crown margin tapers off softly to avoid tension within the ceramic material.

2. Oxidation:

Oxidize the finished alloy framework according to manufacturer's recommendations. Then remove the oxide, either by pickling or by sandblasting, depending on the alloy used and on the manufacturer's instructions.

3. Opaque firing:

With Duceram Kiss, you have a choice between a paste opaque and a powder opaque to attain the desired basic color of the alloy framework. Either way, the first opaque is applied in a uniform, semi-covering layer and then fired (see our firing recommendations on pages 17-19). If you use bio-alloys, you should employ the neutral paste for the first opaque firing in order to reduce the firing temperature. This is yet another way in which you benefit from added processing reliability. Then cover the entire framework entirely in a second step and fire as per our firing recommendations.

Notes on the powder opaque:

The powder opaque is mixed with O or OL modelling liquid that can then be applied as usual using a brush or a glass instrument.

Notes on the paste opaque:

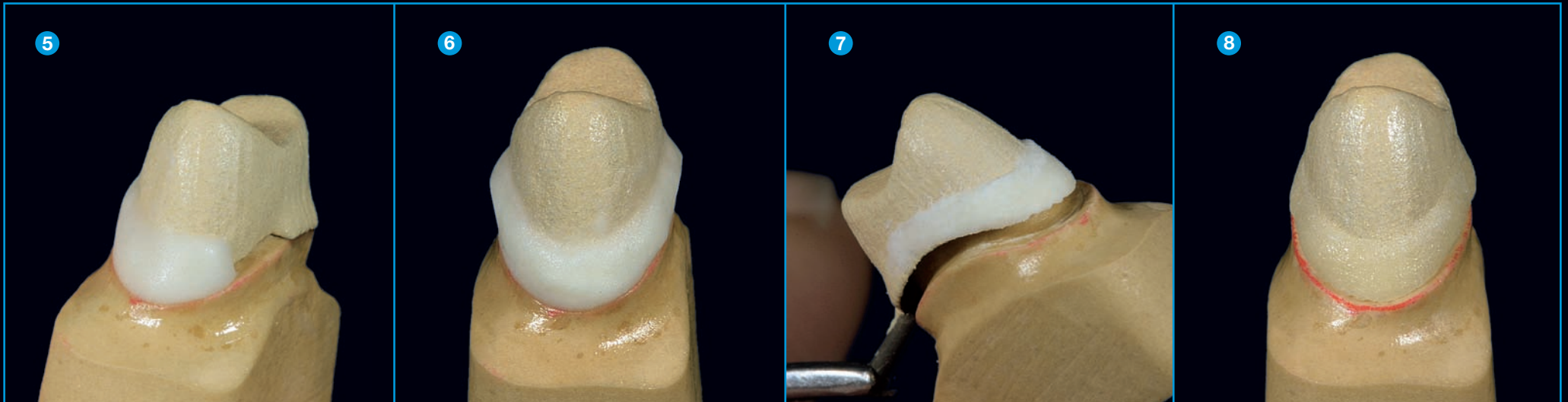
The new paste opaque is supplied in a small glass jar. This form of presentation allows the paste opaque to maintain its creamy consistency for a longer period of time. If you need to dilute the opaque, please use only the paste opaque fluid specially designed for this purpose.

4. Isolation:

To be able to apply the porcelain margin powder, seal the die with die hardener first in order to prevent the isolation from being absorbed by the die material. Now place a generous layer of ceramic isolation (Ducera SEP) on the die. Then allow to air briefly and reapply the isolation material.

The porcelain margin technique

Dental restoration:
CMDT Jürgen Braunwarth



While developing the Kiss ceramic, great emphasis was placed on achieving a margin material that is firing stable and offers an excellent fit.

The five margin materials (SM 1–5) and an additional five final margin materials (F SM 1–5) now allow the creation of porcelain margins in an easy procedure. These highly fluorescent margin materials will cover discolored dies, even in aesthetically difficult situations. In addition, they assure a naturally vital impression under different lighting conditions.

5./6. First margin firing:

Mix the margin material with SD Quick and apply as usual. The margin layer has to dry thoroughly (a process you can accelerate using a hair dryer).

7. Lifting off the crown:

You can now carefully remove the coping from the die and fire it according to our firing recommendations (see pages 17-19).

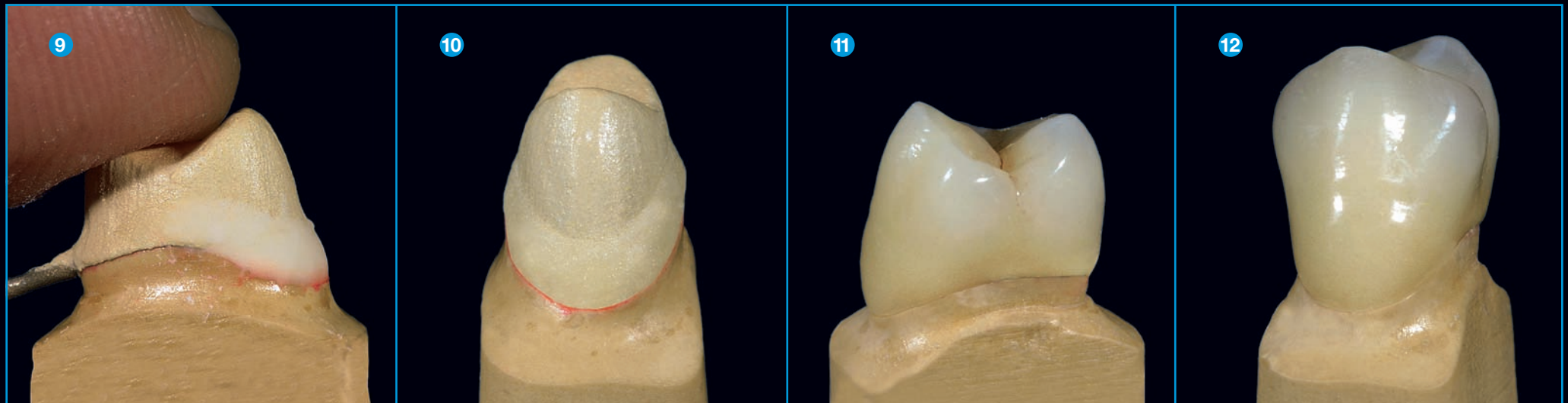
8. Result of the first margin firing:

The shrank part of the margin is completed for the following second margin firing.



The porcelain margin technique

Dental restoration:
CMDT Jürgen Braunwarth



9. Second margin firing:

Before the second margin firing, the isolation procedure should be repeated again.

Add the margin powder as before the first margin firing and then fire it according to our firing recommendations (see pages 17-19).

10. Result of the second margin firing:

Two margin firings should usually be sufficient to obtain a perfect marginal fit. If, however, some corrections should still

be needed, after glaze firing these can be performed using the final margin materials which are fired at 660 °C. The shades of the final margin materials are identical with those of the regular margin materials.

Notes to the final shoulder margin:

Please use the final shoulder margin only after completing the restoration and please observe that it is not possible to solder after using the final shoulder margin due to the low firing temperature of this material.

11./12. Completing the crown:

Once the margins have been fired, the rest of the crown can be built up as usual. With Duceram Kiss you have a choice to provide the patient with a restoration by using either an efficient and economical three-powder layering technique or a high-end layering technique.

Aesthetics well-defined

Duceram Kiss gives you the possibility to create your personal level of aesthetics that fits the structure and capabilities of your dental laboratory.

Duceram Kiss consists of two parts that can be used either separately or in close conjunction:

Aesthetic Line Base:

The efficient and economical build-up.

The opaques and the dentines are designed to match each other perfectly, both in chroma and in fluorescence. In addition, six standard incisals have been assigned to the V-shades to make shade reproduction easier for the dental technician and to optimize the final aesthetic result.

Aesthetic Line Individual:

The high-end segment.

A designed system of mixing the various powders at a ratio of 1:1 will put a large number of additional shade nuances at your disposal that will give you impressive and natural-looking results even in complex and difficult cases. Right on the tracks of nature, DeguDent has further perfected the natural light-dynamic effects.

- Time economy
- Small assortment
- Low storage cost
- Speedy build-up
- 100 % reproducible

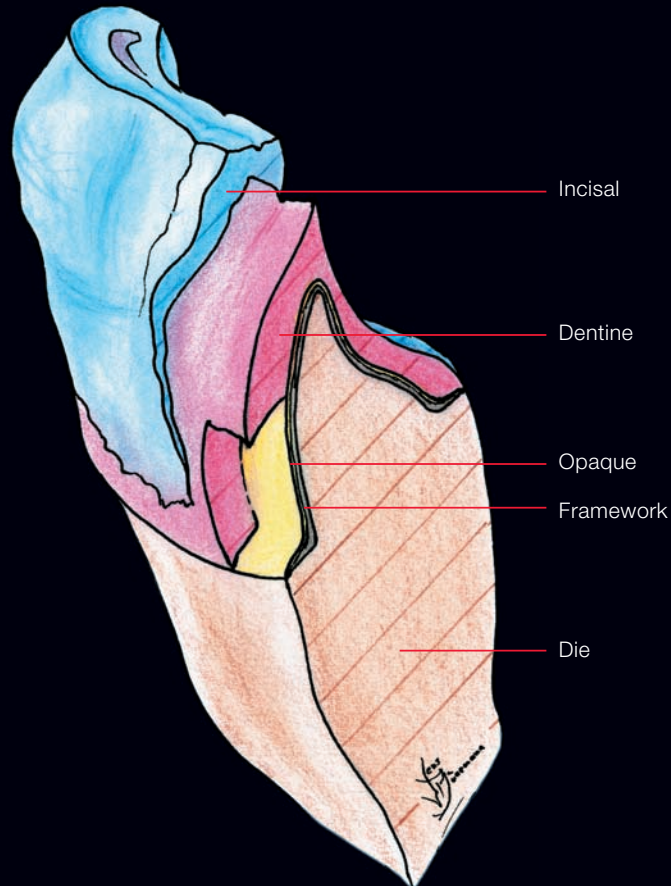
- Shade variety
- Multifunctional powders
- Light-dynamic powders
- Aesthetics without limitations
- Beauty and perfection



Aesthetic Line Base

All V-Shades can be reproduced using only the 40 powders without once having to mix them. Through the extension to 6 incisal powders you can achieve a much better reproduction of the V-Shades in the incisal area.

All opaque powders are exactly adjusted to the respective basic shade and in their fluorescence characteristics suited to reproduce the varying shade. A first class starting point for your day-to-day business, with the assurance that you can easily achieve almost everything. The simpler, the better. That's Kiss.



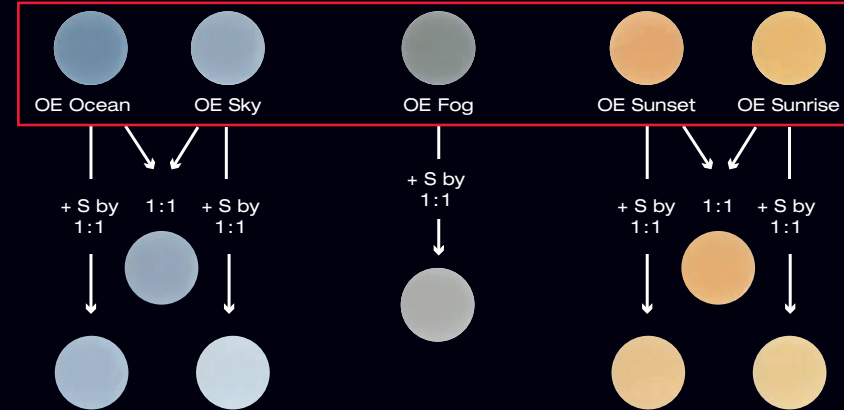
Aesthetic Line Individual

Color variety with system due to 1:1 mixtures

The Power Chroma Shade classification system

Stand by multi-functional powder

5 Opal effect powders



With the aid of the six fluorescent Power Chromas you can reproduce almost all cervical and mamelon effects as well as using them to raise the chroma. Simply mixing any of these Power Chromas in ratio 1:1 creates 15 new shades. In this way, even the slightest shade transitions can be easily and systematically found.

The multi-functional powder “Stand by” is a very transparent opal effect powder which plays a key role within the Kiss system. This powder can be used by itself or in combination with any other powder in the set. Using the opal effect powders Ocean, Sky and Fog you can control brightness and opalescence values within the bluish and greyish incisal areas.

Sunset and Sunrise are for characterisation of incisal areas and also for fine transparent chroma reduction in the body area.

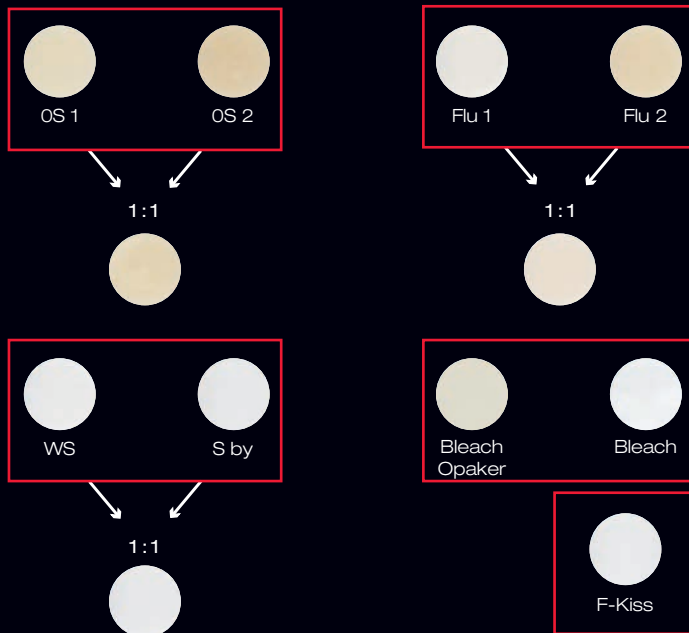
Shade variations are due to print quality.



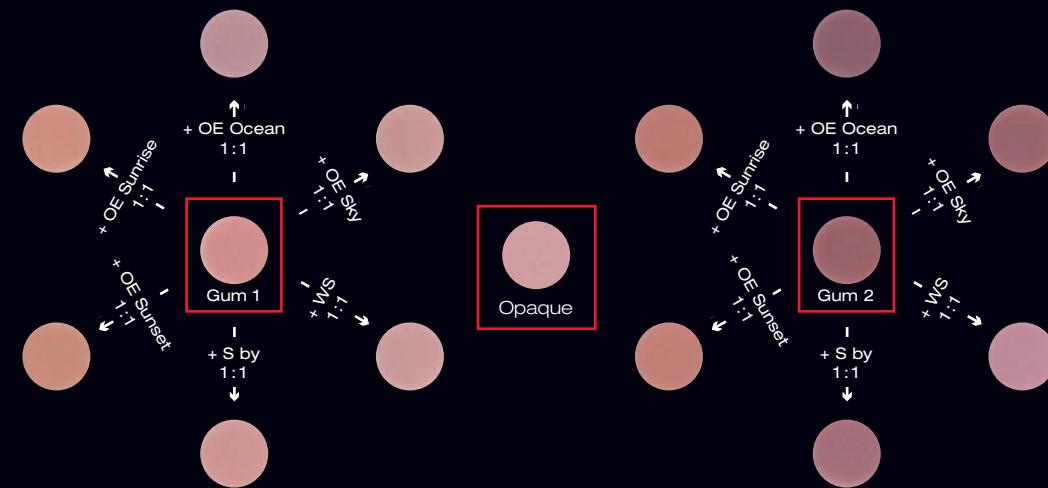
Aesthetic Line Individual

Color variety with system due to 1:1 mixtures

5 incisals for individual brightness control



2 Gum powders for individual gingiva shades.



Shade variations are due to print quality.

The individual incisal powders of the Kiss concept are capable of imitating all natural opalescent or fluorescent effects. The Opal Incisal 1 and 2 are for brighter (OS 1) and darker (OS 2) shades. For shades in between, simply mix the two powders 1:1. The same thing goes for Flu Inside 1 and 2. As the name suggests, these two highly fluorescent powders are intended for use on

the inner layering, where only minimum layering thickness is available and the opaque needs to be well covered whilst at the same time raising the brightness in the incisal area. White Surface (WS) is a whitish opalescent effect powder used for lightening surfaces. By adding Stand by the effect can be halved. For reproducing strongly bleached teeth, we do of course

include Bleach Opaque and Bleach Dentine in the set. A special type of correction powder has been created with the transparent “Final Kiss”. By mixing the Gum powders 1 and 2 with specially selected effect powders (see diagram) you can copy most effectively any characteristics of natural gingiva.



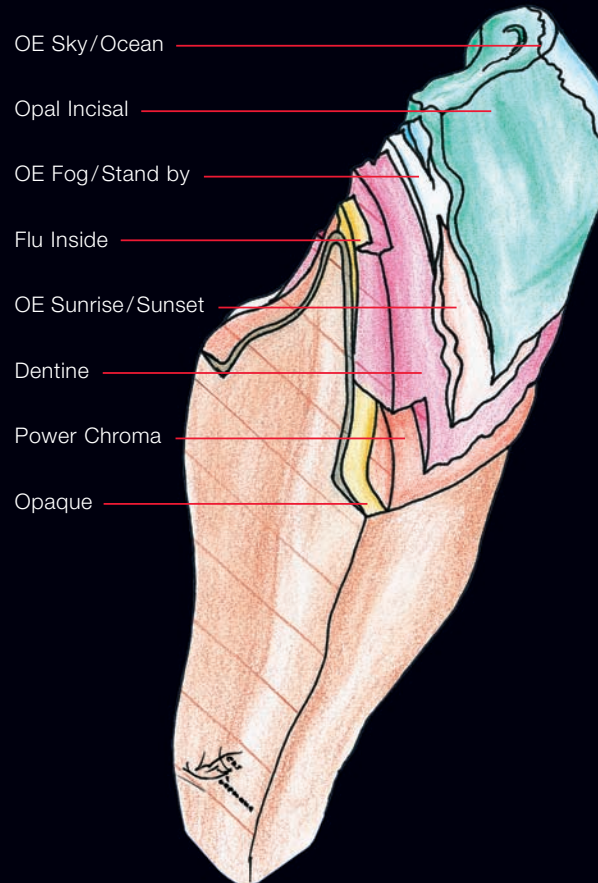
Aesthetic Line Individual

The difference between a basic layering technique and an individual layering technique should be recognizable and simple to achieve. The Duceram Kiss system was designed to help you to reach the ultimate level of quality in dental technology.

The Kiss concept offers you a range of shade varieties for an exact reproduction of the natural beauty of teeth, as was described in detail on the preceding pages.

As early as during the opaque build-up step, you have an opportunity to achieve nature-like characterizations. In subsequent build-up steps, the twenty-one Power Chroma powders for the cervical and occlusal regions are used to create a life-like appearance and depth based on a convincing equilibrium of chroma and fluorescence.

When working with particularly thin layers or in aesthetically demanding cases, the framework or coping should be covered with one of the highly fluorescent Flu Inside powders. Simply apply this material directly to the framework or coping, lengthening the incisal edge as shown in the build-up diagram.



This will scatter and reflect the light in the critical transition area from framework to ceramic and optically conceal the incisal edge of the framework.

Additional dentine layers are built up as usual. It is always recommended to build up to full shape, followed by a precise and well-defined cut-back. To achieve mamelon effects you can once again use the Power Chroma powders that can be toned down using the Stand by multi-functional powder.

A comprehensive selection of incisal, opal incisal and opal effect powders is available for build-up of the incisal area. Pronounced yellowish or orange-coloured opal effect powders can be used to effectively support the basic shade used. At the same time, they give the tooth a nature-like appearance of depth and transparency. Older teeth can also be naturally reproduced without problems, using a greyish opal essence powder (OE Fog). For the second dentine firing, ridges can be optically enhanced by simulating a decalcification area, using the White Surface powder.

The Kiss concept takes you another step closer to nature – in a powerful yet simple way.



General firing recommendations for Duceram Kiss

General information for firing:

1. You can optionally fire Duceram Kiss in connection with conventional alloys (not bio alloys) and non precious alloys using a higher heating rate of 80 °C/min. When using the higher heating rate, the firing temperature should also be increased by 10 °C.

2. Note the required long-term cooling/tempering process for alloys with a CTE ex 14.5 µm/m·K (25–600 °C).

3. Different ceramic furnaces may perform completely differently. The actual firing temperatures may have to be adjusted accordingly.

		Pre-heating	Drying	Heat rate	Firing temp.	Holding	Vacuum	Tempering
		°C	min	°C/min	°C	min	hPa	
	Oxide firing	Please see the DFU of the corresponding alloy.						
Bio alloy program	Neutral paste	575	7:00	55	900	3:00	50	–
	Paste opaque	575	7:00	55	900	3:00	50	–
	Powder opaque	575	5:00	55	900	3:00	50	–
Conventional alloy	Paste op. 1 + 2	575	7:00	55	930	2:00	50	–
	Powder op. 1 + 2	575	5:00	55	930	2:00	50	–
Without long-term cooling For example Degudent Kiss	Shoulder 1	575	7:00	55	920	1:00	50	–
	Shoulder 2	575	7:00	55	920	1:00	50	–
	Dentine 1	575	6:00	55	910	1:00	50	–
	Dentine 2	575	4:00	55	900	1:00	50	–
	Glaze	575	3:00	55	890	1:00	–	–
	Correction	575	4:00	55	880	1:00	50	–
	Final Shoulder	575	4:00	55	660	1:00	50	–
Long-term cooling ex CTE 14.5 µm/m·K	Dentine 1	575	6:00	55	910	1:00	50	3 min/850 °C
	Dentine 2	575	4:00	55	900	1:00	50	3 min/850 °C
	Glaze	575	3:00	55	890	1:00	–	3 min/850 °C

The firing temperature must be adapted to the number of units fired in the same cycle. 5 to 10 units require an increase by 5 °C to 10 °C; more than 10 units require an increase by 10 °C to 20 °C.

The values listed here are intended for orientation only and should be regarded only as guidelines. Your firing results may differ. All firing results depend on the performance of the furnace used, which in turn depends on the make, model and age of the furnace. Therefore, the guideline values will have to be adapted individually for each firing. We recommend running a test firing cycle to evaluate the performance of the furnace used. We have compiled and checked all values and other data with great care. However, we cannot under any circumstances be liable for your results.

For the most current firing recommendations you may also visit www.kiss-ceramics.com



Firing instructions for Duceram Kiss in the Cergo furnace

		Pre-drying		Closing	Pre-Heating		Heat Rate	Vacuum			Final temp.	Holding		Tempering	
		°C	min	min	°C	min	°C/min	on/ off/cont.	on °C	off °C	°C	V min	min	°C	min
	Oxide firing	Please see the DFU of the corresponding alloy.													
Bio alloy program	Neutral paste	135	4:00	2:00	575	1:00	55	cont	575	900	900	0:00	3:00	–	–
	Paste Opaque	135	4:00	2:00	575	1:00	55	cont	575	900	900	0:00	3:00	–	–
	Powder Opaque	135	2:00	2:00	575	1:00	55	cont	575	900	900	0:00	3:00	–	–
Conventional alloy	Paste Opaque 1+2	135	4:00	2:00	575	1:00	55	cont	575	930	930	0:00	2:00	–	–
	Powder Opaque 1+2	135	2:00	2:00	575	1:00	55	cont	575	930	930	0:00	2:00	–	–
Without long-term cooling For example Degudent Kiss	Shoulder 1	135	2:00	2:00	575	2:00	55	cont	575	920	920	0:00	1:00	–	–
	Shoulder 2	135	2:00	2:00	575	2:00	55	cont	575	920	920	0:00	1:00	–	–
	Dentine 1	135	1:00	3:00	575	2:00	55	cont	575	910	910	0:00	1:00	–	–
	Dentine 2	135	1:00	2:00	575	2:00	55	cont	575	900	900	0:00	1:00	–	–
	Glaze	135	0:00	2:00	575	1:00	55	off	–	–	890	0:00	1:00	–	–
	Correction	135	1:00	1:00	575	1:00	55	cont	575	880	880	0:00	1:00	–	–
	Final Shoulder	135	1:00	2:00	450	1:00	55	cont	575	660	660	0:00	1:00	–	–
Long-term cooling ex CTE 14.5 µm/m·K	Dentine 1	135	2:00	2:00	575	2:00	55	cont	575	910	910	0:00	1:00	850	3:00
	Dentine 2	135	2:00	2:00	575	2:00	55	cont	575	900	900	0:00	1:00	850	3:00
	Glaze	135	2:00	2:00	575	2:00	55	off	–	–	890	0:00	1:00	850	3:00

The firing temperature must be adapted to the number of units fired in the same cycle. 5 to 10 units require an increase by 5 °C to 10 °C; more than 10 units require an increase by 10 °C to 20 °C.

The values listed here are intended for orientation only and should be regarded only as guidelines. Your firing results may differ. All firing results depend on the performance of the furnace used, which in turn depends on the make, model and age of the furnace. Therefore, the guideline values will have to be adapted individually for each firing. We recommend running a test firing cycle to evaluate the performance of the furnace used. We have compiled and checked all values and other data with great care. However, we cannot under any circumstances be liable for your results.

For the most current firing recommendations you may also visit www.kiss-ceramics.com



Firing instructions for Duceram Kiss in the Multimat Touch&Press

		Pre-Heating		Drying	Heat Rate	Final temp.	Holding	Vacuum		Tempering	
		°C	min	min	°C/min	°C	min	hPa	min	°C	min
	Oxide firing	Please see the DFU of the corresponding alloy.									
Bio alloy program	Neutral paste	575	1:00	7:00	55	900	4:00	50	1:00	–	–
	Paste Opaque	575	2:00	7:00	55	900	4:00	50	1:00	–	–
	Powder Opaque	575	1:00	4:00	55	900	4:00	50	1:00	–	–
Conventional alloy	Paste Opaque 1+2	575	1:00	7:00	55	930	3:00	50	1:00	–	–
	Powder Opaque 1+2	575	1:00	4:00	55	930	3:00	50	1:00	–	–
Without long-term cooling For example Degudent Kiss	Shoulder 1	575	2:00	5:00	55	920	2:00	50	1:00	–	–
	Shoulder 2	575	2:00	5:00	55	920	2:00	50	1:00	–	–
	Dentine 1	575	2:00	5:00	55	910	2:00	50	1:00	–	–
	Dentine 2	575	2:00	4:00	55	900	2:00	50	1:00	–	–
	Glaze	575	1:00	3:00	55	890	2:00	–	–	–	–
	Correction	575	1:00	3:00	55	880	1:00	50	1:00	–	–
	Final Shoulder	450	2:00	3:00	55	660	2:00	50	1:00	–	–
Long-term cooling ex CTE 14.5 µm/m·K	Dentine 1	575	2:00	5:00	55	910	2:00	50	1:00	850	3
	Dentine 2	575	2:00	4:00	55	900	2:00	50	1:00	850	3
	Glaze	575	1:00	3:00	55	890	1:00	–	–	850	3

The firing temperature must be adapted to the number of units fired in the same cycle. 5 to 10 units require an increase by 5 °C to 10 °C; more than 10 units require an increase by 10 °C to 20 °C.

The values listed here are intended for orientation only and should be regarded only as guidelines. Your firing results may differ. All firing results depend on the performance of the furnace used, which in turn depends on the make, model and age of the furnace. Therefore, the guideline values will have to be adapted individually for each firing. We recommend running a test firing cycle to evaluate the performance of the furnace used. We have compiled and checked all values and other data with great care. However, we cannot under any circumstances be liable for your results.

For the most current firing recommendations you may also visit www.kiss-ceramics.com



Shade	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4
	Standard layering															
Opaque	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Dentine	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Incisal	1	2	3	3	5	1	1	4	6	1	5	5	6	2	4	4
	Individual layering															
Opaque	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Opaque orange	For characterisation of occlusal, cervical and palatinal areas.															
Opaque Bleach	For bleached or lightened teeth. Normally only used together with bleach dentine.															
Opaque Gum	For Gum areas.															
Margin SM/F SM	1	2	2 + 3	2 + 4	3 + 4	1	1 + 3	3	3 + 5	1	1 + 4	2 + 4	4	1 + 4	2 + 4	3 + 4
Dentine	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Power Chroma 1	1 + 2	2	2 + 5	3 + 5	4 + 6	1	1 + 3	2 + 3	3 + 6	1 + 6	2 + 6	3 + 6	5 + 6	1 + 6	2 + 6	3 + 6
Power Chroma 2																
Power Chroma 3																
Power Chroma 4																
Power Chroma 5																
Power Chroma 6																
	Power Chroma powders are highly chromatic, fluorescent intensifiers for individual shade characterisation. All Power Chromas serve the purpose of shade support in cervical, palatinal and occlusal areas. Powders are used pure or in ratio 1:1 with other shades. Mixing with "Stand by" makes it an ideal powder for mamelon areas. The suggested shade indication guide should be seen as a reference.															
Flu Inside 1	x	x	Mix	Mix		x	x	Mix		x	Mix			x	Mix	
Flu Inside 2					x				x			x	x			
Opal Incisal 1	x	x	Mix	Mix		x	x	Mix		Mix	Mix			Mix	Mix	
Opal Incisal 2					x				x				x			x
Stand by	Strongly opalescent, almost transparent multi-functional powder. Stand by can be used pure or in combination with any other powder in the Kiss set. The Stand by powder has a key role in the Kiss concept.															
OE Sunset	Opalescent effect powder for orange/reddish incisal segments also for raising the chroma level at the 2nd or 3rd dentine firing. Mainly for A-Shades. Can be reduced in effect by mixing with Stand by.															
OE Sunrise	Opalescent effect powder for yellowish incisal segments also for raising the chroma level at the 2nd or 3rd dentine firing. Mainly for B-Shades. Can be reduced in effect by mixing with Stand by.															
OE Ocean	Opalescent effect powder for deep blue incisal segments – can be reduced in effect by mixing with Stand by.															
OE Sky	Opalescent effect powder for light blue incisal segments – can be reduced in effect by mixing with Stand by.															
OE Fog	Opalescent effect powder for greyish incisal segments – can be reduced in effect by mixing with Stand by.															
White Surface	Whitish opalescent effect powder for enhancing occlusal cusps on posteriors as well as palatinal/lingual ridges on anteriors – can be reduced in effect by mixing with Stand by.															
Final Kiss	Low fusing transparent correction powder (Final Kiss) – firing temperature 880 °C.															

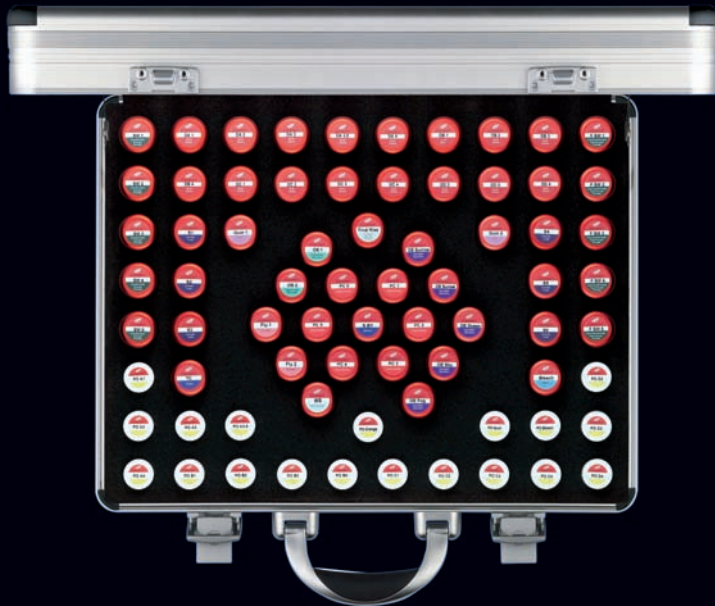


Getting started with the Kiss concept.

The complete Duceram Kiss range – with its 73 materials, all colour indicators, liquids, brushes and the portioner – has been assembled in an attractive case to give you the best possible starting point for your first steps in the Duceram Kiss world.

This complete range is available not only for the paste opaque, which is simple to process successfully in its glass, but also for the spray-on technique and for standard use with our powder opaque.

If you wish, you can get a first idea of how the Kiss concept can work for you by ordering the starter kit with its six dentines or the test kit with a single dentine.



Duceram Kiss Complete Assortment

With Paste Opaque REF 53 6099 0131

With Powder Opaque REF 53 6099 0132



Duceram Kiss Starter Kit

REF 53 6099 0141



Duceram Kiss Trial Kit

REF 53 6099 0151



To the point.

Bleach

Obviously a lighter and whiter powder than A1, mostly for use with patients whose own natural teeth have undergone “bleaching”.

D

Dentine, corresponding to its shade, for the build up of dentine core as found in natural teeth. Pigmented with organic colors to allow visual control while building up. These pigments burn out totally.

Final Kiss

Correction powders for firing after glazing.

Flu Inside

Fluorescent dentine (e.g. as a modifier for mamelons). This is a dentine with outspoken fluorescent character. Amplifies the brightness of the veneer. Invisible short wave light is absorbed whereas long wave light visibly emitted.

F SM

Margin powder for any corrections after glazing.

Gum

Gum colored powder for build up of gingiva areas, e.g. for superstructures in implantology.

OE

Opal effect powder. For individual layering in the upper third of the incisal area.

OS

Opalescent incisal powder for imitating the natural color scheme in natural enamel.

PC

Power Chroma for increasing the chroma saturation and individual characterisations of chroma.

PO

Paste Opaque, in correlation with V-shades. The high opacity has good covering characteristics.

S

Incisal. For the build up of incisal areas.

S by

Opalescent multi-function powder for use either pure or for mixing.

Ducera Liquid SD

Modelling fluid – for mixing dentine, modifier, incisal and transpa.

Ducera Liquid Form

Modelling fluid – as SD, however, with increased stackability. Requires longer drying times.

Ducera Liquid Quick

Modelling fluid – for mixing dentine, incisal and transpa, whenever an accelerated drying time is required. Indication: porcelain facettes, in- and onlays, porcelain margins or corrections (contact points – less shrinkage).

SM

Margin powder for making metal free margin areas. Shoulder or chamfer preparation required.

TC

Transparent powder. Enhances the transparency of surface areas.

WS

White opalescent incisal powder for lightening surface areas.



For further information or
to place your order:

www.degudent.com



DeguDent GmbH
Rodenbacher Chaussee 4
63457 Hanau-Wolfgang
GERMANY
www.degudent.com

DeguDent
A Dentsply International Company