

Heraeus



Venus[®] Composites

The origin of beauty and versatility

Product information

Venus[®] 
The new aesthetics.

Venus® – The new aesthetics.

For patients in earlier times, good fortune meant the combination of functionality and the absence of pain. Aesthetic demands have come along in the meantime and are now of key interest. Because:

Naturally beautiful teeth have become an important status symbol meanwhile; they embody attributes such as health, performance and modernity. In a nutshell: They symbolise the promise of happiness and success. Not only for the patient – also for the dentist and the dental technician.

Aesthetic competence is increasingly becoming a differentiating success factor, with which new customer acquisition and earning potential is developed. What matters: Consistently high quality where aesthetics is concerned.

That is why Venus is the first and only brand to encompass both composite materials for the dentist, as well as ceramic materials for the dental technician. So, in the future, aesthetic and natural restorations will be achieved in terms of shade and light dynamics across the treatment spectrum. In other words:

Venus sets new standards in dental aesthetics.



Venus® — More aesthetically perfect than ever!



The finishing touch for your next restorative masterpiece

With Venus you can provide your patients with natural-looking restorations that are extremely durable thanks to the properties of Venus. With this universal composite you can fabricate durable, brilliant restorations using the simplest of techniques.

The excellent properties of Venus have been further enhanced with Venus flow. With this well attuned system you are ready to face the greatest challenges posed by anterior and posterior restorations.

The comprehensive shade range and unique layering concept will ensure that all your restorations are masterpieces.

Venus® – Natural restorations.

Only Venus offers the Heraeus Kulzer “Color Adaptive Matrix” effect. This is a concept in which the refractive indices of the fillers and monomer matrix are optimally matched. The result of this complex mechanism is that the margins of the filling are virtually imperceptible.

This effect gives Venus the unique ability to take on the shade of the surrounding tooth structure and appear very natural. The very finely milled filler particles produce in addition an excellent high lustre comparable to that of natural tooth enamel.

Universal application

Venus – a medium viscosity filling material with exceptional handling properties. Venus composite is very firm, yet smooth and does not adhere to the instrument. This facilitates contouring and increases efficiency. The excellent polishing and layering properties of Venus make it ideal for anterior restorations. Its high strength and abrasion resistance also make it the material of choice for posterior fillings.

Case 1:



Before



After

Photographs: Prof. Dr. C.-P. Ernst, University of Mainz, Germany

Case 2:



Before



After Venus flow application



After

Photographs: Prof. Dr. A. Cerutti, University of Brescia, Italy

Venus® — Beauty in layers.

By using the layering technique the dentist can fully exploit the aesthetic advantages provided by Venus. A customised build-up of dentin, enamel and incisal shades creates natural restorations, which perfectly match the patient's surrounding tooth structure.

Dentin shades

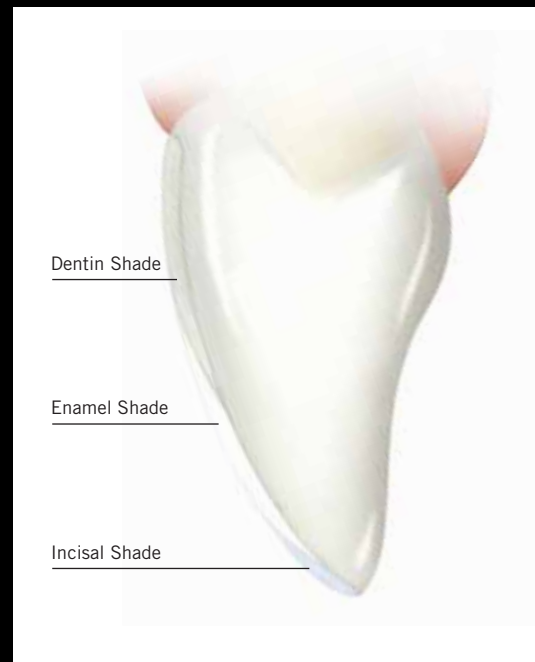
These opaque shades give the restoration a natural depth of shade (chroma). Dentin shades can also be used without additional layering.

Enamel shades

The enamel shades have medium transparency chroma and are available in a wide range of shades. Enamel shades can be used without additional layering or combined with dentin and translucent shades to achieve high aesthetic results.

Incisal shades

These translucent shades have the greatest transparency and least chroma. They are used for adding the finishing touches to the restoration. They are built up over the enamel shades or in the incisal margin to create a natural appearance.



2-Layer shade guide

Venus has a 2-Layer shade guide, which is hand layered and made from original material. The shade guide consists of a base layer of dentin shade with a layer of enamel shade over the surface so that an exact shade match according to natural tooth structure can be determined. At the same time, the final shade of the restoration is shown, thus facilitating the right shade selection. An easy-to-follow chart helps to determine the matching shade layer.



Venus® – Perfect aesthetics.



Initial situation



Imitation of palatal enamel using translucent composite (T1)



Opaque dentin (OA2) is applied on top to mimic the typical incisal edge of upper incisors



Application of enamel layers starting with darker shades (A3) and progressing to lighter shades (A1)



Final layer is applied using translucent composite (T1)



Final result after polish

All variations of natural tooth layering can be copied exactly using Venus shades. Opaque dentin shades exhibit the greatest depth of shade and ideal for building up areas of lost enamel structure which require their shade or lightness to be masked. This includes the dentin core when building up point angles in the anterior area.

It is best to begin by building up a core using the dentin shades. The core is completely covered with a uniform layer of enamel shade. Enamel shades exhibit a medium depth of shade and are available in a wide range of popular shades.

The translucent shades exhibit the least depth of shade and the highest translucency. Shade T1 has a cool hue and is suitable for bleached teeth as well as for copying highly translucent incisal edges. T2 as neutral and T3 with a warm hue are ideal for normal tooth shades.

Venus® — Durable aesthetics.

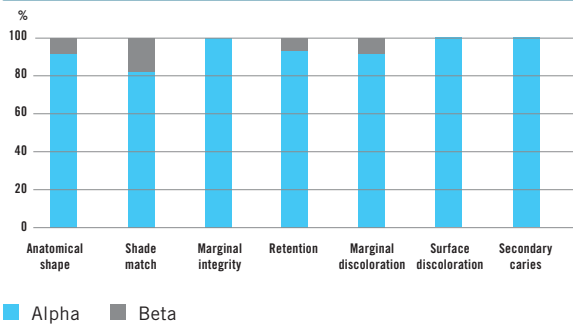
2-year-results are available for Venus from clinical studies at the University of Leipzig, Germany, and the university of Loma Linda, USA. Both studies document the excellent clinical viability and durability of Venus restorations. In all categories evaluated in the study at the University of Loma Linda, USA, Venus was ranked Alpha (Code A) or Beta (Code B).

40 of primary 53 placed fillings (classes III, IV, V, diastema closure, veneers) were evaluated after two years.

Conclusion:

“Venus microhybrid composite is an excellent choice for anterior restorations.”

Results from University of Loma Linda, USA



Status straight
after filling



Examination
after 3 years

Photographs:

Prof. Dr. C.-P. Ernst, University of Mainz, Germany



Venus® – Versatile shades.

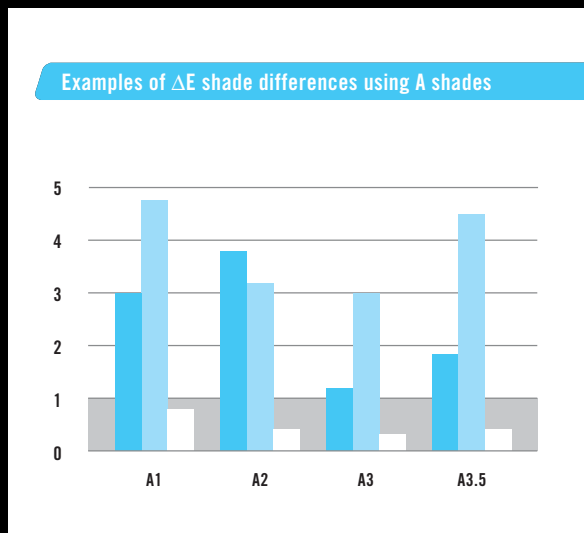
Venus is available in 27 shades and 3 degrees of opacity to ensure exact shade matching and masking. The Venus shade range includes enamel, dentin and incisal shades as well as super bleach shades, which have been specially developed for bleached teeth.

Shade interplay of Venus and Venus flow

The shades of Venus flow are optimally matched to the Venus shades. Venus flow offers a choice of 14 shades in 3 different opacity levels that allow you to create aesthetic restorations, which blend perfectly with the surrounding teeth.

Presentation	Enamel shades														Inter- mediary shades		Super- bleach shades		Opaque dentin shades						Incisal shades			Venus flow	Baseliner White
Venus	A1	A2	A3	A3.5	A4	B1	B2	B3	C2	C3	C4	D2	D3	HKA2.5	HKA5	SB1	SB2	OA2	OA3	OA3.5	OB2	OC3	OD2	SB0	T1	T2	T3	A2	
Master's Kit* (PLTs 5x/10x 0.25 g)	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Basic Kit (PLTs or syringes)		■	■											■				■	■						■				
Syringes Refill (syringe 4 g)	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
PLTs Refill (PLTs 10x/20x 0.25 g)	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		
Venus flow	A1	A2	A3	A3.5	A4	B1	B2	B3	C2	C3	C4	D2	D3	HKA2.5	HKA5	SB1	SB2	OA2	OA3	OA3.5	OB2	OC3	OD2	SB0	T1	T2	T3		
Assortment (4 syringes à 1.8 g)	■	■	■																									■	
Syringes Refill (syringe 1.8 g)	■	■	■	■	■	■	■							■		■	■	■							■	■		■	

PLTs per pack: ■ 5 x 0.25 g ■ 10 x 0.25 g ■ 20 x 0.25 g (PLTs = preloaded capsules for direct application) * incl. Gluma® Desensitizer



Examples of ΔE shade differences using A shades

- Ideal range "ΔE ≤ 1"
- Point 4/Point 4 flow;
- = no visible difference in shade
- Tetric/Tetric flow;
- Venus / Venus flow

The graph shows the "ΔE" shade differences. "ΔE ≤ 1" is discernible to the trained eye. The optimum range is therefore "ΔE ≤ 1". Venus and Venus flow are manufactured exactly according to the same shade specification. This produces an optimum shade match in the ideal "ΔE ≤ 1" range. The shades were recorded using a Datacolor SF 600 spectrophotometer, specimen dimensions 20mm diameter, 1mm thick, light type D65, aperture 18mm, 4 shade specimens recorded for each A shade.

Source: internal data, data on file

Venus[®] flow – Controllable consistency with greater versatility.

Venus flow enhances the effectiveness of Venus in clinical situations, in which precise control can only be attained by using a flowable composite. Due to its thixotropic properties Venus flow only flows when moved by an instrument. Its variable consistency ensures that you are always in control of the material.

Its low viscosity makes Venus flow ideal for the following applications:

- Fissure sealing
- Extended fissure sealing
- Class V fillings
- Minimally invasive Class I and II fillings in areas not subjected to masticatory forces
- Minimally invasive Class III fillings
- Minor repairs to direct or indirect restorations
- Splinting teeth
- Cavity lining
- Bonding brackets
- Minor shape and shade adjustments to enamel and dentin

Reliable results

Venus flow offers next to aesthetic high performance a whole range of positive physical properties to ensure that it meets your requirements.

Venus flow contains 62% by weight of a barium glass as inorganic fillers and is based on a Bis-GMA/TEGDMA matrix. The low filler content improves coverage of the dentin surface.

Venus flow is radiopaque, fluoride releasing and abrasion resistant. Your patients can be assured that their restorations will not only look good but also last a long time.

Clinical cases

Case 5:

Closing a diastema between teeth 12–22
(Venus OA2, A2, Venus flow T2)



Before



After

Case 6:

Minimally invasive filling in tooth 16
(Venus flow, Venus OA3, A3)



Before



After

Case 7:

Replacement of insufficient composite filling in tooth 46
(Venus flow Baseline, Venus SBO, OA2, A2)



Before



Baseline



After



Restoration after 4 years

Venus[®] and Venus flow[®] – Product outline.

Venus

Product	Order no.	Product	Order no.
Kits			
■ Basic Kit - Syringe _____	66013214	■ PLT - T2 _____	66008005
■ Basic Kit - PLT _____	66013213	■ PLT - T3 _____	66008006
■ Master's Kit - PLT _____	66020511	■ PLT - HKA5 _____	66007998
■ 2-Layer Shade Guide _____	66008711		
PLTs Contents 20 x 0.25g			
■ PLT - A1 _____	66007979	Each syringe contains 4g	
■ PLT - A2 _____	66007981	■ SYR - A1 _____	66007366
■ PLT - A3 _____	66007983	■ SYR - A2 _____	66007367
■ PLT - A3.5 _____	66007985	■ SYR - A3 _____	66007368
■ PLT - B1 _____	66007988	■ SYR - A3.5 _____	66007369
■ PLT - B2 _____	66008000	■ SYR - A4 _____	66008156
■ PLT - C2 _____	66007989	■ SYR - B1 _____	66007370
■ PLT - OA2 _____	66008012	■ SYR - B2 _____	66007600
■ PLT - HKA2.5 _____	66007996	■ SYR - B3 _____	66007601
		■ SYR - C2 _____	66007371
		■ SYR - C3 _____	66008086
		■ SYR - C4 _____	66007603
		■ SYR - D2 _____	66007372
		■ SYR - D3 _____	66008092
PLTs Contents 10 x 0.25g			
■ PLT - A4 _____	66008159	■ SYR - OA2 _____	66007410
■ PLT - B3 _____	66008001	■ SYR - OA3 _____	66008098
■ PLT - C3 _____	66008089	■ SYR - OA3.5 _____	66007597
■ PLT - C4 _____	66008003	■ SYR - OB2 _____	66007599
■ PLT - D2 _____	66007992	■ SYR - OC3 _____	66007602
■ PLT - D3 _____	66008095	■ SYR - OD2 _____	66007604
■ PLT - OA3 _____	66008016	■ SYR - SB1 _____	66007608
■ PLT - OA3.5 _____	66007997	■ SYR - SB2 _____	66007609
■ PLT - OB2 _____	66007999	■ SYR - SBO _____	66007411
■ PLT - OC3 _____	66008002	■ SYR - T1 _____	66007373
■ PLT - OD2 _____	66008004	■ SYR - T2 _____	66007605
■ PLT - SB1 _____	66008008	■ SYR - T3 _____	66007606
■ PLT - SB2 _____	66008009	■ SYR - HKA2.5 _____	66007596
■ PLT - SBO _____	66008014	■ SYR - HKA5 _____	66007598
■ PLT - T1 _____	66007995		

Venus flow

Product	Order no.	Product	Order no.
Kits			
■ Venus flow Assortment (4 x 1.8g) _____	66014561	■ Venus flow - B2 _____	66014568
		■ Venus flow - B3 _____	66014569
		■ Venus flow - OA2 _____	66014570
		■ Venus flow - SB1 _____	66014571
		■ Venus flow - SB2 _____	66014572
		■ Venus flow - SBO _____	66014573
		■ Venus flow - T2 _____	66014575
		■ Venus flow - Baseline White _____	66014574
		■ Venus flow - HKA2.5 _____	66014564
Each syringe contains 1.8g			
■ Venus flow - A1 _____	66014562		
■ Venus flow - A2 _____	66014563		
■ Venus flow - A3 _____	66014565		
■ Venus flow - A3.5 _____	66014566		
■ Venus flow - A4 _____	66014567		

Aesthetes expect excellent properties.

Vitality through adaption

Selected raw materials and an innovative production technique endow Venus HeraCeram with extraordinary optical properties, which perfectly imitates the appearance of natural teeth, including the dynamic interaction of fluorescence and opalescence, imparting the greatest naturalness and aesthetics for Venus restorations.

Surfaces to inspire

Venus HeraCeram protects the antagonist, as its surface is extremely dense and smooth. It is easy to polish to a brilliant shine and its outstanding surface quality ensures minimal abrasion loss. This also guarantees high plaque resistance and gingival compatibility.

Please find further informations on the unique properties of Venus ceramics in the product folders.



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