

# Heraeus

## Venus Diamond® & Venus Diamond® Flow

- An unprecedented combination of high durability, excellent handling and low shrinkage
- Together with the ability to use a single shade that can produce a restoration that appears layered and polychromatic, Venus Diamond and Venus Diamond Flow are the ideal choice for all your direct restorations



## Venus®

The New Esthetics



# Long-lasting, high gloss polishers.

## Venus® Supra

**Venus® Supra** is a two step universal polishing system that delivers long-lasting, high gloss results for every composite and restoration. Filled with micro-fine diamond powder, the rubberized polishers attain a visibly higher gloss and lustre than conventional polishers. At the same time, Venus Supra polishers achieve an extremely low surface roughness reducing plaque accumulation and pigmentation over time.

### Two steps to long-lasting esthetics

#### 1. Red — Pre-polisher



#### 2. Grey — High Gloss Polishers



Features	Benefits
Highly filled with microfine diamond powder	Long-lasting, high gloss results
Universally applicable	One system for all composite and restoration types
Only two steps	Time saving
Autoclavable and re-usable	Economical



## Don't just take our word for it.

*"Venus Diamond has all of the qualities of a superior composite material including excellent color adaptation, ease of use and the ability to look great in one layer or many layers."* Unpaid endorsement



Pinhas Adar, MDT

*"The chameleon qualities make Venus Diamond undetectable and the restorations invisible."*

Unpaid endorsement



Joyce Bassett, DDS

*"Using a single shade of Venus Diamond, I found that the chameleon properties of this composite are fabulous and produced a 100% invisible restoration. I truly love the finish of this material (Venus Diamond) and although I have been a loyal user of another system, I am now a faithful fan of Venus Diamond."* Unpaid endorsement



Amanda Canto, DDS

*"Single shade matching or dentin/enamel layering, Venus Diamond is the easy to use composite system that mimics nature."* Unpaid endorsement



Gary DeWood, DDS, MS

*"Venus Diamond is ideal to mimic the shade and properties, color and form of natural dentition."*

Unpaid endorsement



Newton Fahl, Jr., DDS, MS

*"An essential quality of a composite is the ability to create invisible margins by blending with natural tooth structure. Venus Diamond's color adaptive matrix, combined with easy handling and polishing to a high lustre, allows us to restore teeth to their natural beauty in both anterior and posterior restorations."* Unpaid endorsement



Howard Glazer, DDS

*"I found it amazing that most of my Venus Diamond restorations only needed one shade. The coloring of Venus Diamond is fantastic and truly different than most composites I have used."* Unpaid endorsement



Lou Graham, DDS

*"For many of my patient's restorative needs, I am able to use one shade of Venus Diamond composite and obtain a perfect color match. This saves me time and money."* Unpaid endorsement



Fred Margolis, DDS

*"With its unique optical ability to blend into existing tooth structure, less shrinkage and increased hardness for better wear resistance, Venus Diamond offers a tremendous improvement over previous materials!"* Unpaid endorsement



Robert Marus, DDS

*"The chameleon effect is unreal. The chameleon effect of Venus Diamond was so amazing that even in the anterior I didn't need to layer."* Unpaid endorsement



Mike Melkers, DDS

*"Venus Diamond should be renamed 'Invisible' because it just disappears in the mouth. I have been thrilled with the color matching abilities of Venus Diamond. Any dentist can become a better cosmetic dentist tomorrow by just using the translucent shades of Venus Diamond as the final layer of their composite restorations."* Unpaid endorsement



Gary Radz, DDS

*"Using a single shade of Venus Diamond can produce a restoration that appears layered and polychromatic."* Unpaid endorsement



Corky Willhite, DDS



One, two or three shades...

Any way you layer it, the results are brilliant.

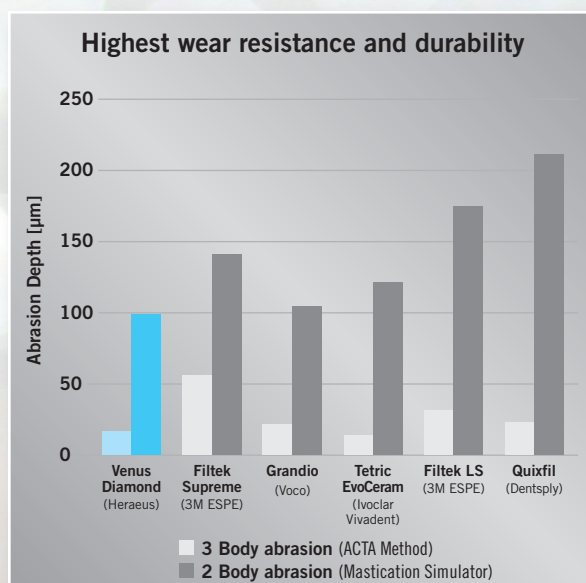
## Venus Diamond®

**Venus Diamond®** leads the industry in color adaptability, with a patented formula that provides an outstanding natural look. Just one shade saves time and produces radiant results. Along with superb color esthetics, this revolutionary nano-hybrid composite exhibits exceptional durability, handling and minimal shrinkage.

- Just one layer provides exceptional results for simple restorations
- Replicating nature that mimics tooth anatomy
- Enhanced mechanical features and minimal shrinkage
- Superb handling
- Exceptional durability

### Wear resistance advantages are measurably better

This graph demonstrates the superior wear resistance of Venus Diamond as compared to other commonly used products.



**The result:** Venus Diamond's occlusal, vertical and volumetric loss is less than other leading competitors.



**Venus Smile Makeover® by:** Robert Marus, DDS, Yardley, PA

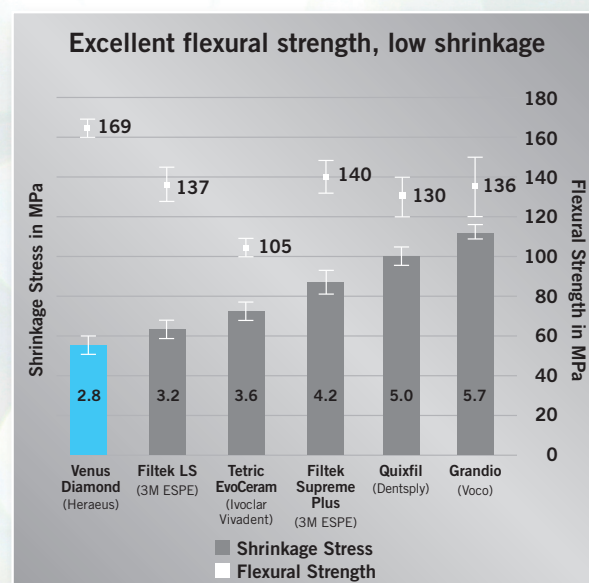
*\*one shade of Venus Diamond used.*



**Venus Smile Makeover by:** Abdi Sameni, DDS, Los Angeles, CA

### Mechanical advantages are measurably better

This graph demonstrates the superior mechanical properties of Venus Diamond composite when compared to other commonly used products—particularly in the areas of minimal shrinkage stress and high strength.



**The result:** Venus Diamond is both more flexible under stress and more durable over time.

# Advanced color adaptation.

## Venus Diamond®

### Overall performance

Venus Diamond® has been carefully researched and studied by industry leaders throughout the world. These charts demonstrate their findings.

**Table 1—Dental Composite Properties**

	Venus Diamond (Heraeus)	Filtek™ Supreme Plus	Tetric EvoCeram®
Flexural strength [MPa] OTH, 20 sec	169	167	105
Hardness	578	552	479
Hardness under 2 mm	521	439	396
Sensitivity to ambient light @ 8k Lux [s]	210	105	110
Shrinkage [%-vol] Watts method	1.5	2.1	1.7
Shrinkage force [MPa] QTH, 20 sec, 24 h, water	2.8	4.2	3.6
Reflection [%] after brush abrasion, 100,000 cycle	7.0	7.3	5.8
Abrasion depth [μm] ACTA method, 300,000 cycle	19.0	20.4	31.8
Wear resistance depth [μm] mastication sim, 1.5 M	120.9	103.8	176.5
Radiopacity [%-Al]	325	170	400

**Table 2—Venus Diamond Properties**

	Venus Diamond benefits	Benefits for dentists
Flexural strength [MPa] OTH, 20 sec	High resistance against fractures	Fewer complaints from patients and a reduction in costly post-treatments
Hardness	Enduring surface quality holds shape and maintains function	Overall patient satisfaction and improved clinical outcomes
Hardness under 2 mm	Reliable curing depth	Built-in threshold ensures consistent results
Sensitivity to ambient light @ 8k Lux [s]	Sufficient working time	Removes time pressure and allows for precision restorations, even in the most complex cases
Shrinkage [%-vol] Watts method	Reduced marginal gap	No secondary caries. Restoration maintains its look and functionality over time
Shrinkage force [MPa] QTH, 20 sec, 24 h, water	Long-lasting marginal integrity protects tooth from flexural stress and secondary caries	Restorations stay strong and the patient maintains good oral health

*Filtek™ Supreme Plus is a trademark of 3M ESPE. Tetric EvoCeram® is a registered trademark of Ivoclar Vivadent.*



**Venus Smile Makeover by:** Newton Fahl, Jr, DDS, MS, Curitiba, Brazil



**Venus Smile Makeover by:** Abdi Sameni, DDS, Los Angeles, CA





# Seeing is believing.

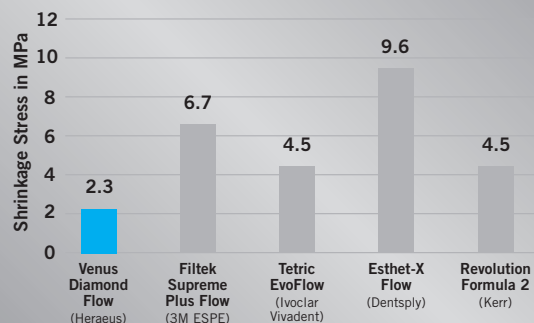
## Venus Diamond® Flow

**Venus Diamond® Flow** is a nano-technology based flowable composite that offers high radiopacity, low shrinkage and high flexural strength.

- Ensures reliable diagnosis due to high radiopacity
- Low shrinkage stress
- Higher flexural strength than leading flowables
- Unique Venus Diamond chemistry produces superior esthetics through optimized color adaptation
- Thixotropic handling behavior desired by dentists for easy control
- Improved marginal quality for long lasting restorations
- Ideal as a base or liner under all composite material
- Higher gloss and lower surface roughness than leading flowables
- Superior performance ensures confidence to use in various indications
- Baseline White ideal for blocking out dentin discoloration



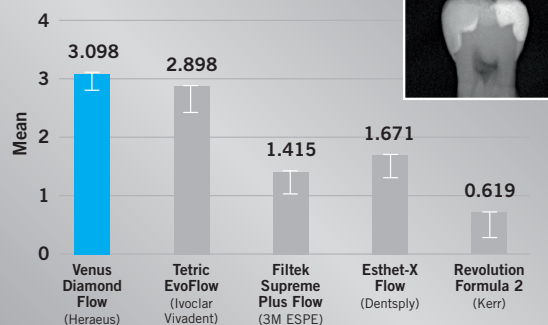
### Superior performance with low shrinkage stress



Source: Heraeus Kulzer R&D, Wehrheim, Germany. Data on file.

**The result:** Venus Diamond Flow exhibits lower shrinkage stress than leading flowables ensuring better marginal integrity for long lasting restorations.

### Radiopacity



Source: Dr. Peter Yaman, University of Michigan, Ann Arbor, MI, USA: 'Radiopacity of an Experimental Flowable Composite Compared to Four Currently Available Flowable Composites'. September 2009. Data on file.

**The result:** Venus Diamond Flow is easily distinguished from the residual tooth structure due to its high radiopaque properties.

- Available in both Syringe and PLT's (pre-loaded tips)
- Variety of 12 Shades including Heraeus' signature HKA2.5 and Baseline White



# Heraeus

## Venus Diamond®



66043143

### Venus Diamond PLT Master's Kit

10 x 0.25g of the shades: A1, A2, HKA2.5, A3, A3.5, B1, B2, C2, OM, OD;  
5 x 0.25g of the shades: A4, HKA5, B3, C3, D3, OL, CO, YO, CL, AM, BL, BXL, OB;  
2 x 1.8g Venus Diamond Flow Baseline, and Shade Guide



66039914

### Venus Diamond PLT Basic Kit

10 x 0.25g of the shades: A1, A2, HKA2.5, A3, A3.5, B1; Shade Guide, iBOND® Total Etch samples, and Venus Supra samples



66039913

### Venus Diamond Syringe Basic Kit

1 x 4g syringe of the shades: A1, A2, HKA2.5, A3, A3.5, B1; Shade Guide, iBOND® Total Etch samples, and Venus Supra samples

Shades	Syringe	PLT 20 x 0.25g	PLT 10 x 0.25g
A1	66035471	66039008	
A2	66035472	66039009	
HKA2.5	66035473	66039010	
A3	66035474	66039011	
A3.5	66035475	66039012	
A4	66035476		66039013
HKA5	66035477		66039014
B1	66035478	66039015	

Shades	Syringe	PLT 20 x 0.25g	PLT 10 x 0.25g
B2	66035479	66039016	
B3	66035480		66039017
C2	66035481	66039018	
C3	66035482		66039019
D3	66035483		66039020
OL (Opaque Light)	66035484		66039021
OM (Opaque Medium)	66035485	66039022	
OD (Opaque Dark)	66035486	66039023	

Shades	Syringe	PLT 20 x 0.25g	PLT 10 x 0.25g
BL (Bleach)	66035487		66039025
BXL (Bleach Extra Light)	66035488		66039026
OB (Opaque Bleach)	66035489		66039024
CL (Clear)	66035490		66039027
AM (Amber)	66035491		66039028
CO (Clear Opal)	66035492		66039029
YO (Yellow Opal)	66035493		66039030

## Venus Diamond® Flow



66040353

### Venus Diamond Flow Syringe Assortment

1 x 1.8g syringe each of shades A1, A2, A3, and Baseline



66040367

### Venus Diamond Flow PLT Assortment

10 x 0.2g each of shades A1, A2, A3, and Baseline

Shades	Syringe	PLT 20 x 0.25g
A1	66040354	66040368
A2	66040355	66040369
HKA2.5	66040357	66040370
A3	66040358	66040371
A3.5	66040359	66040372
A4	66040360	66040373

Shades	Syringe	PLT 20 x 0.25g
HKA5	66040361	66040374
B2	66040362	66040375
OM (Opaque Medium)	66040363	66040376
CL (Clear)	66040364	66040377
BXL (Bleach Extra Light)	66040365	66040378
Baseline	66041052	66041051

## Venus® Supra

66039110

### Venus Supra Kit

(10 polishers: each of all five shapes as pre- and high gloss polishers)



Refills	Item Number
Cup	66039161
Disk	66039162
Flame	66039163
Large Cup	66039164
Large Flame	66039165