

Heraeus

Venus[®] Bulk Fill

STRESS
REDUCTION

DEPTH
PERFECTION

Venus[®] Bulk Fill is the low stress base liner to bulk solution for efficient esthetic posterior restorations.

Venus Bulk Fill delivers:

- Self-adaptive handling eliminates steps and provides ideal coverage of cavity floor and walls
- Long working time for when you need it
- Highly radiopaque for more accurate diagnosis

REALITY > STATES:

“Venus Bulk Fill has significantly less shrinkage stress compared to a conventional flowable composite.”

Venus[®]

The New Esthetics

Venus® Bulk Fill

Flowable posterior bulk fill composite



Venus® Bulk Fill is a flowable material that provides dentists with the filling method flexibility that allows for base lining or bulk filling as needed. This flexibility saves time and money, allows for easier and more efficient placement, while delivering a stable, long lasting restoration.

Venus® Bulk Fill vs. *TRADITIONAL RESIN COMPOSITE*

Venus Bulk Fill	<i>TRADITIONAL RESIN COMPOSITE</i>
Reduction in placement time due to less steps	Multi-layering technique takes more time and leaves more room for error
Ideal for base lining and bulk filling. Demonstrates greater than 4mm depth of cure for when bulk filling is warranted.	Incremental layering of 2mm required, additional time and steps necessary
Low shrinkage stress—improved long term marginal integrity	Some composites exhibit higher rate of stress which causes marginal gap formation, secondary caries and post-op sensitivity
Better flowability—self-adaptive handling eliminates steps and provides ideal coverage of cavity floor and walls	Higher viscosity composites prohibit complete coverage of cavity floor and ideal cavity wall adaptation
High radiopacity—ensures safe and reliable diagnosis during recall examinations	Many composites have lower radiopacity which increases the difficulty in detecting secondary caries

Venus® Bulk Fill vs. *AMALGAM*

Venus Bulk Fill	<i>AMALGAM</i>
Reduction in placement time due to less steps	Activation process—amalgamator required to activate, more steps during placement
Light cured in 20 seconds	Long set times ranging from 6–10 minutes
Flowable viscosity that is self adapting allowing for complete coverage of cavity floor and walls	Packable consistency makes access to nooks and crannies of preparation difficult
Highly esthetic	Silver color has no esthetic value
Patient and dental staff user friendly	Contact with mercury containing products can be considered a health hazard. Requires strict disposal guidelines

Venus® Bulk Fill vs. *FLOWABLE COMPETITIVE MATERIAL*

Venus Bulk Fill	<i>FLOWABLE COMPETITIVE MATERIAL</i>
Ideal for base lining and bulk filling. Demonstrates greater than 4mm depth of cure for when bulk filling is warranted.	Universal flowables are limited to 2mm increments
Long working time of 80 seconds—critical in the posterior where overhead dental light is mandatory to work effectively	Conventional flowables demonstrate significantly less working time
Higher radiopacity—allows for higher diagnostic capabilities	Less radiopaque
Lower shrinkage stress which can minimize marginal discrepancies and post-operative sensitivity	Conventional flowable composites demonstrate higher shrinkage stress

Venus® Bulk Fill

Flowable posterior composite

Faster, esthetic posterior restorations. Simplified.

Venus® Bulk Fill is an advanced posterior restorative solution that provides dentists with a faster, easier technique than incremental layering. The result—a reduction in chair time, and a more efficient and cost effective restoration.

82% of flowable composites are used as a base or liner under traditional composites in posterior restorations*

What makes Venus® Bulk Fill so efficient?

- **Easy** placement technique for base lining or bulk filling
- **Self-adapting** handling allows for ideal cavity adaptation—**eliminating steps** prior to final cure
- **Compatability** with all methacrylate based bonding adhesives and composites
- **Simple dispensing and placement** via convenient Pre-Loaded Tip (PLT) or Syringe
- **Long working time** compared to other flowable composite materials



"Using Venus Bulk Fill shortens the time required to do the restoration because it can be placed in 4mm increments as opposed to traditional 2mm increments. This reduction of steps allows higher efficiency which translates into more profitability per hour." Unpaid endorsement

Aria Irvani, DDS



"Venus Bulk Fill delivers what the dental profession has been looking for—the complete confidence to bulk fill an esthetic posterior composite restoration in half the procedure time without sacrificing quality." Unpaid endorsement

Robert Marus, DDS



"The self-adapting handling properties of Venus Bulk Fill provide the ideal flowability into all cavo-surfaces eliminating the chance for voids that can occur with traditional composites and flowables especially at the most critical area when dealing with Class II type restorations—the gingival box! This combined with the confidence of sealed margins and low shrinkage stress, together are the ideal components for perfect restorations." Unpaid endorsement

Andrew Shannon, DDS



"Since I have been using Venus Bulk Fill for Class I and II posterior restorations they have become so much easier! This material reduces several steps, making the filling procedure faster and less stressful. Time is money, I'm not going back to the old fashioned way." Unpaid endorsement

José Luiz Ruiz, DMD, FAGD

Properties of Venus® Bulk Fill

Material:		Venus® Bulk Fill	Surefil® SDR™ Flow
Manufacturer:		Heraeus Kulzer	Dentsply Caulk
Shade:		Universal Shade	Universal Shade
Curing Depth: (blue light; 600 mW/cm ² ; 20 sec)	[mm]	6.2	4.0
Contraction Stress (shrinkage stress):	[MPa] @ 24h	3.4	3.6
Compressive Strength:	[MPa]	331	233
Flexural Strength:	[MPa]	120	120
Radiopacity:	[%-Al]	300	240
3 Body Wear Resistance:	[μm]	32	41
(ACTA method, poppy seed, 300,000 cycl.)	[mm ²]	0.31	0.39
Working Time: (ambient light, 8klux)	[s]	80	50
Conversion Rate (blue light; 600 mW/cm ² ; 20 sec)	[%]	55	49
Reflexion after Polishing with Venus® Supra (20/40 sec)	[%]	7.5	3.7

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

■ Better

■ Equal

Venus® Bulk Fill Class I Posterior Restoration



Amalgam restoration and recurrent decay were removed buccolingually yielding a class I preparation.



iBOND® Self Etch, chosen for its high bond strength, was then applied to the preparation and agitated with a microbrush for 20 seconds.



Chosen for its low shrinkage stress and superior ease of use, Venus® Bulk Fill was used to fill approximately 4mm of the pulpal floor.



Due to the exceptional flow and self leveling properties of Venus® Bulk Fill, instrumental manipulation was not necessary, and material was light cured for 20 seconds.



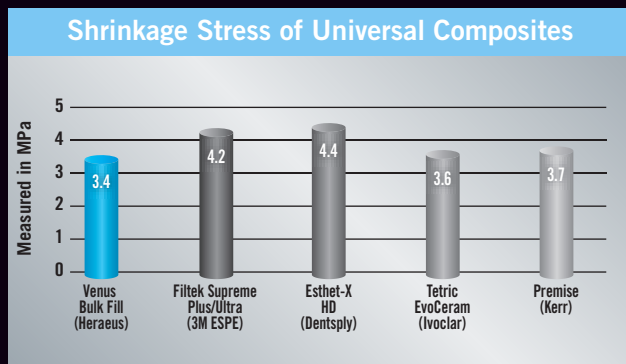
A final layer of Venus Diamond® shade A2 was applied and adapted to the margins of the restoration, then light cured for 20 seconds.



Venus® Bulk Fill demonstrates the high radiopacity required for accurate and safe diagnosis.

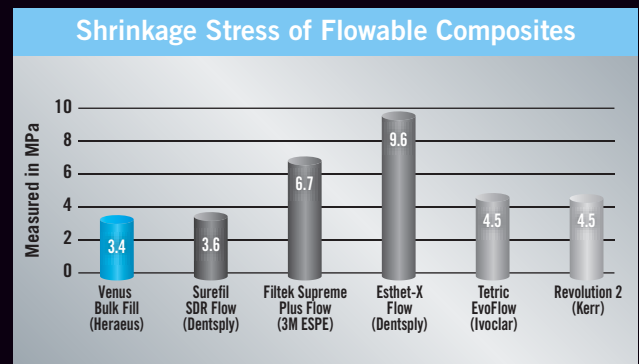
Scientifically proven

Venus® Bulk Fill produces superior, long lasting posterior restorations and delivers the peace of mind of proven clinical efficacy that dentists expect from restorative materials.



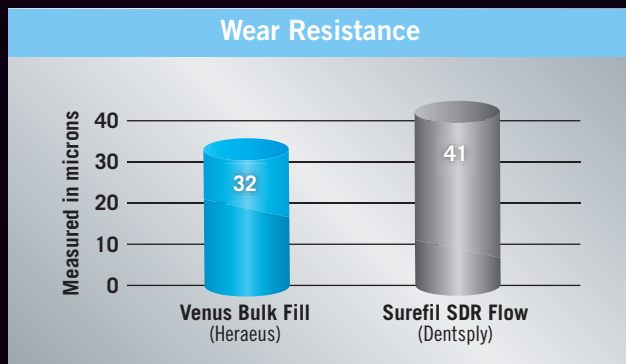
The result: Venus® Bulk Fill demonstrates a reduction in shrinkage stress which will reduce internal forces on bonded interfaces.

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



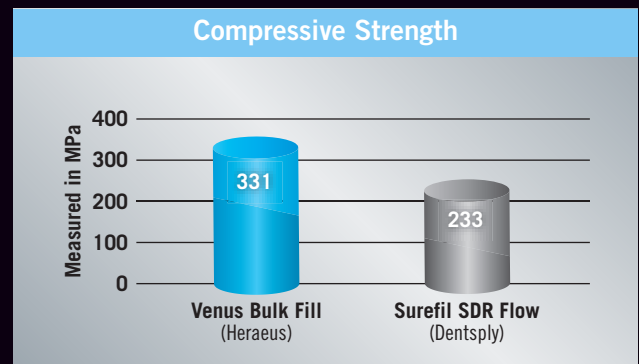
The result: Venus® Bulk Fill demonstrates a reduction in shrinkage stress which will reduce internal forces on bonded interfaces.

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



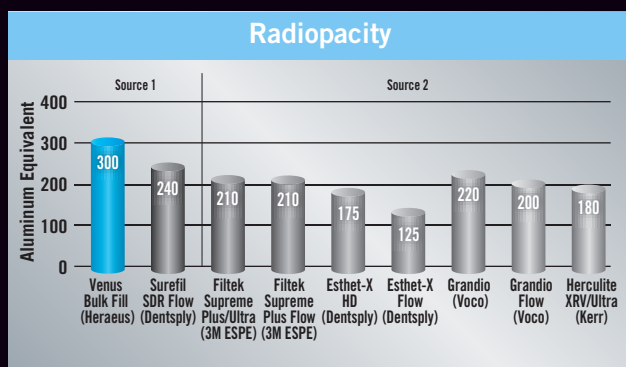
The result: Venus® Bulk Fill demonstrates 22% less wear. In areas of proximal wear, a material with a lower wear rate is important when restoring contact areas.

Source: Heraeus Kulzer R&D, Wehrheim, Germany Unpublished data. Data on file for Venus Bulk Fill and Surefil SDR Flow. Test method: ACTA method, poppy seed, 300,000 cycles.



The result: Venus® Bulk Fill demonstrates 30% higher compressive strength.

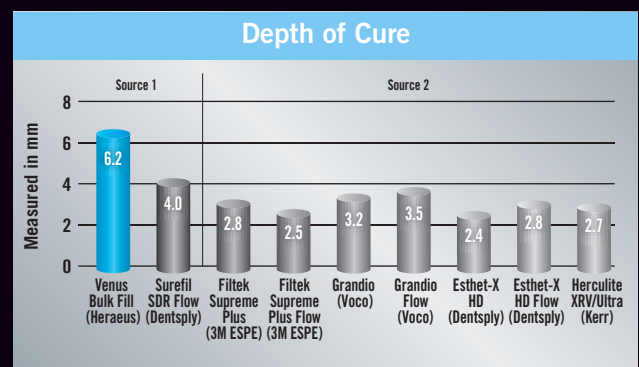
Source: ADA Professional Product Review, Spring 2010, Volume 5, Issue 2.



The result: Venus® Bulk Fill reveals more than 250% radiopacity. The higher radiopacity ensures clear diagnostic capabilities and allows for more accurate diagnosis for the dentist and patient.

Source 1: Heraeus Kulzer R&D, Wehrheim, Germany Unpublished data. Data on file for Venus Bulk Fill and Surefil SDR Flow. Test method acc. ISO 4049:(blue light; 600 mW/cm²; 20 sec.). Specific. > 4.

Source 2: ADA Professional Product Review, Spring 2010, Volume 5, Issue 2.



The result: Venus® Bulk Fill is shown to have the highest depth of cure capabilities.

Source 1: Heraeus Kulzer R&D, Wehrheim, Germany Unpublished data. Data on file for Venus Bulk Fill and Surefil SDR Flow. Test method acc. ISO 4049, Specification > 250%.

Source 2: ADA Professional Product Review Spring 2010, Volume 5, Issue 2.

Venus® Bulk Fill

Flowable posterior composite

Heraeus

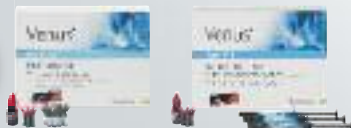
The all-inclusive Venus® Bulk Fill Kits are designed to provide you with the materials you require for a complete esthetic restoration:

- Adhesive layer: iBOND® Self Etch or iBOND® Total Etch (your choice)
- Base layer: Venus® Bulk Fill
- Final top layer: Venus Diamond®

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Venus® Bulk Fill

Kit includes Self Etch Bonding Adhesive!



Venus Bulk Fill PLT Intro Kit (Self Etch): 15 x 0.25gm Venus Bulk Fill PLT's, 5 x 0.25gm Venus Diamond PLT's (shade A2), and 1 x 2ml iBOND Self Etch bottle—**66044745**

Venus Bulk Fill Syringe Intro Kit (Self Etch): 3 x 1.8gm Venus Bulk Fill Syringes, 5 x 0.25gm Venus Diamond PLT's (shade A2), and 1 x 2ml iBOND Self Etch bottle—**66046791**

Kit includes Total Etch Bonding Adhesive!



Venus Bulk Fill PLT Intro Kit (Total Etch): 15 x 0.25gm Venus Bulk Fill PLT's, 5 x 0.25gm Venus Diamond PLT's (shade A2), and 1 x 2ml iBOND Total Etch bottle—**66044744**

Venus Bulk Fill Syringe Intro Kit (Total Etch): 3 x 1.8gm Venus Bulk Fill Syringes, 5 x 0.25gm Venus Diamond PLT's (shade A2), and 1 x 2ml iBOND Total Etch bottle—**66046792**



Venus Bulk Fill PLT Refill: 10 x 0.25gm Venus Bulk Fill PLT's—**66044743**

Venus Bulk Fill Syringe Refill: 1 x 1.8gm Venus Bulk Fill Syringe—**66046795**

Venus Diamond®



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	Shades	Syringe	PLT 20 x 0.25g	PLT 10 x 0.25g
A1	66035471	66039008	B1	66035478	66039015	
A2	66035472	66039009	B2	66035479	66039016	
HKA2.5	66035473	66039010	C2	66035481	66039018	
A3	66035474	66039011	BL (Bleach)	66035487		66039025
A3.5	66035475	66039012	BXL (Bleach Extra Light)	66035488		66039026

Additional shades available—please reference your distributor catalog or contact your Heraeus Sales Specialist at (877) 258-5937.

iBOND® Self Etch



66033607

iBOND Self Etch Bottle Assortment

1 x 4ml Bottle, 50 Application Tips, IFU and Pictorial Card

66033603

iBOND Self Etch Bottle Value Pack

3 x 4ml Bottles, IFU and Pictorial Card

66033604

iBOND Self Etch Single Dose Assortment

50 Single Doses, 50 Application Tips, IFU and Pictorial Card

66033605

iBOND Self Etch Single Dose Value Pack

100 Single Doses, 100 Application Tips, IFU and Pictorial Card

iBOND® Total Etch



66040094

iBOND Total Etch Bottle Refill

1 x 4ml Bottle, 50 Application Tips, IFU and Pictorial Card

66039867

iBOND Total Etch Bottle Value Pack

3 x 4ml Bottles, IFU and Pictorial Card

66040093

iBOND Total Etch Single Dose Refill

50 Single Doses, 50 Application Tips, IFU and Pictorial Card

66039870

iBOND Total Etch Single Dose Value Pack

100 Single Doses, 100 Application Tips, IFU and Pictorial Card

66039866

iBOND Total Etch Bottle Assortment

1 x 4ml Bottle, 50 Application Tips, IFU, Pictorial Card, PLUS 2 x 2.5ml syringes of iBOND Etch 35% Gel, 25 Cannulas

66039869

iBOND Total Etch Single Dose Assortment

50 x 0.15ml Single Doses, 50 Application Tips, IFU, Pictorial Card, PLUS 2 x 2.5ml syringes of iBOND Etch 35% Gel, 25 Cannulas

Includes iBOND Etchant