

Expert confident about Venus Diamond®

Prior to the official launch, European experts in the field of restorative dentistry learned about the new material, and by the end of the two-day preview symposium, they were in agreement: The innovative composite combines low shrinkage stress with a high degree of durability in a completely new way.



Participants of Venus Diamond Preview Symposium

In late November 2008, Heraeus invited about 30 opinion leaders from throughout Europe to Mainz for its Venus Diamond Preview Symposium introducing the new nano-hybrid composite Venus Diamond. Over the course of two days, the participants – all experts in the field of aesthetic and restorative dentistry – first became familiar with the properties of the new material. Then as part of a hands-on course led by Professor Antonio Cerutti from the University of Brescia in Italy, they had an opportunity to work extensively with the new composite.

Dr Andreas Utterodt, R&D Manager for dental composites, illustrated the development of this new nano-hybrid filling material. The new TCD-Urethane Monomer and the optimised filler system were developed to reduce the combination of limitations most of the composites which are on the market have. This new matrix enables the perfect combination of low shrinkage stress and high flexural strength. This finding and various further internal and external test results which are testimonials for the outstanding material properties were presented by Dr Janine Schweppe, Scientific Marketing Manager of the Division Dentistry.



Prof. Antonio Cerutti showing tips and tricks in composite layering technique

Like material properties the aesthetic performance of a new universal composite is fundamental. Due to the ideal adjusted refractive index of matrix and nano-fillers the aesthetical outcome of Venus Diamond restorations is perfect. The filling material has the potential to adapt perfectly to the colour of the surrounding natural tooth structure.

This applies to Professor Cerutti as well, who presented the impressive clinical results achieved in his own work with the new product. Among other aspects, he praised Venus Diamond's long, advantageous workability time. "You have to be able to take your time to produce good, aesthetically pleasing restorations. Patients' needs and desires cannot be underestimated these days when it comes to aesthetic restorations," he said. He corroborated his statement by presenting the results of a six-month in-vivo study on Class V, III and IV restorations in which Venus Diamond performed well clinically.



Practical experiences with Venus Diamond

Passing the practical test

Dr Sanjay Sethi of London's Squaremile Dental Centre also presented impressive results gained in practice. One advantage, especially from the practical point of view, is the compatibility of Venus Diamond with all current adhesive systems and bonding techniques.

In the subsequent hands-on course at the clinic at the Johannes Gutenberg University of Mainz, symposium participants had an opportunity to test the new Venus Diamond. Their task was to restore front-tooth trauma in a model. After the practical part and discussion, they were very satisfied with their results: The material does not stick to instruments, can be easily modeled, and

is then easy to polish. The stable and very smooth surface structure gives the restoration long-lasting luster, resulting in a beautiful naturalness. Most of the participants were convinced of this after the one-hour practical course. We passed with flying colours!