Visalys CemCore: Two opposites make a whole

By Kettenbach Dental Staff

A single composite for cementation and core build-up. This has long been considered impossible because of conflicting requirements. By means of patented Active-Connect-Technology (ACT), however, dental specialist Kettenbach Dental has succeeded in meeting the challenge without compromising the material.

The result is the Visalys CemCore system, which enables both adhesive cementation and core build-up to be achieved with just a few components, interlinking brands and the businesses.

Cementation composites need to be as hydrophilic as possible and highly fluid, whereas core build-up requires a high degree of stability and a material that swells as little as possible. Kettenbach Dental states that it has developed a technology that eliminates the conflicts: Active-Connect-Technology. This technology allows optimal mixing of the somewhat hydrophobic cementation composite, Visalys CemCore, with the hydrophilic Visalys Tooth Primer on the damp surface of the tooth.

Despite its hydrophilic properties, the innovative composite achieves a high adhesive strength without swelling. Visalys CemCore flows into every clearance and yet displays a high degree of stability; gentle application of pressure ensures the degree of flow required when carrying out the restoration.

Kettenbach states. Meanwhile, release the pressure, and Visalys CemCore reverts to its firm consistency so that excess material does not expand and is easy to remove after application, according to the company.

The Visalys CemCore system incorporates three basic components: the composite cement after which it is named, one single-component primer for teeth and another for restoration. It is convenient to use and can be tailored to the application, according to the company.

Visalys CemCore is available in a 5 ml dual-chambered syringe. The range of five colors [Universal (A2/A3), Translucent, Bleach, Opaque and Dark (A4)] ensures an excellent basis for esthetic outcome, according to the company.

For securing restorations where outstanding esthetics are demanded, additional color-matched try-in pastes are available. The Tooth Primer can be applied directly to dentine or enamel without mixing, and the Restorative Primer is suitable for pre-treatment of all restoration surfaces, Kettenbach asserts.

This makes the Visalys CemCore system suitable both for cementation and also for core build-up using a single composite. The Active-Connect-Technology ensures powerful adhesion with Visalys Tooth Primer and Visalys Restorative Primer, while low liquid absorption ensures a high degree of dimensional stability in the core build-up and hence a reduced risk of fracture in the final restoration, according to the company.

Visalys CemCore is available to try in Universal (A2/A3) color with a starter pack, which includes not only the Visalys CemCore but also Visalys Tooth Primer and Visalys Restorative Primer, along with the required accessories.

About Kettenbach LP

Kettenbach LP is located in Huntington Beach, Calif., and is the exclusive U.S. distributor for Kettenbach GmbH & Co. KG, located in Eschenburg, Germany. Founded by August Kettenbach in 1944, Kettenbach GmbH was created for the development and marketing of medical and dental products. Today, the company is one of the leading international producers of impression materials for dental use and is also known in other surgical areas of medicine.

For more information, visit www.kettenbach.com.

Sterile yet dirty? Impurities on dental implants

By CleanImplant Foundation Staff

In 2019, the FDA released 2.1 million reports of failed dental implants. Most of these failures were related to a lack of osseointegration. Are patients with clinical preconditions or poorly trained dentists the only causes?

"Sterilized impurities, revealed on packaged implants, may play a significant role in these implant failures. In these critical times, the very last problem our patients need are significant contaminants on the sterile implants we use in our practice. No one would accept chromium, copper, nickel or major organic impurities in their bone," said Dr. Dirk U. Dudddeck, CleanImplant Foundation’s Head of Research.

This non-profit organization conducts independent quality assessments of dental implants in ISO 17025-accredited labs. Based on the data of hundreds of different implants, almost every second implant sample — all carrying FDA or CE labels — showed alarming contamination, according to the organization. And the situation has worsened in recent years.

Renowned scientists, such as Albrektsson, Wennerberg, Norton and de Bruyn, support the project and have developed the globally recognized Trusted Quality seal, ensuring clean medical products based on a consensus guideline. Dentists using implants — contaminated within the factory — should be aware of two different risks: poorer clinical outcome and the increasing danger of patients’ lawsuits. Both risks are avoidable.

For more information, visit www.cleanimplant.org.