



update



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NEWS FROM THE DENTAL WORLD BY IVOCCLAR VIVADENT

Editorial



Dear Reader

In times of economic downturn, you would not expect a manufacturer to introduce new products. However, modern product innovations which meet current customer requirements and demands are always in high demand.

An example for such a product would be the new sintering furnace Programat S1 with its short process cycles which help you to save time. Furthermore, you will find more information about our time-saving cementation systems SpeedCEM and Multilink Implant in this issue of Update. A further topic is the economical bluephase C8 curing light that features a high light intensity.

Another highlight is our i-Kids program, a coordinated system for modern pediatric dentistry, which does not only include preventive but also restorative products for treatment that is specifically adjusted to the target group of children.

Regardless of whether you are interested in all-ceramics, cementation, removable or fixed implant-borne restorations or other innovations to enhance the esthetics of direct restorative procedures, we are sure that you will find a wealth of interesting information and advice in this Update. Our product experts are always available to keep you up to date.

Difficult times always create opportunities – let's seize them together!

Yours sincerely

Josef Richter
Chief Sales Officer
Ivoclar Vivadent AG

Definitely quicker

With Programat[®] S1, IPS e.max ZirCAD copings can be sintered in only 90 minutes.



Light-weight and compact: This is how the new sintering furnace Programat S1 from Ivoclar Vivadent presents itself. Its major advantage lies in the short sintering period, which not only reduces the manufacturing time of zirconium oxide crown and bridge frameworks but also saves energy.

Programat S1 puts an end to lengthy sintering procedures: It allows single-tooth IPS e.max ZirCAD restorations to be sintered in only 90 minutes. By contrast, conventional sintering furnaces require five to eight hours for this process. For the laboratory, a short sintering process means that veneered zirconium oxide-based crowns and bridges can be fabricated within a single working day. The high strength of the material and its accuracy of fit are not affected by the short sintering cycle, as has been confirmed in various scientific studies. In addition, the power consumption of the laboratory is reduced. With the introduction of the energy-saving Programat S1 furnace,

Ivoclar Vivadent continues to pursue its strategy of providing equipment based on "Power Saving Technology".

Innovative technology

Weighing in at only 28 kg, the compact Programat S1 is definitely a lightweight among the sintering furnaces. However, it is no lightweight when it comes to technology: Programat S1 can be calibrated and therefore the sintering temperature can be checked at any time and adjusted if necessary. The OSD operating status display allows the current state of the sintering process to be reliably checked – even from a distance.



The new Programat S1 sintering furnace from Ivoclar Vivadent

Shift up a gear with SpeedCEM[®] and IPS e.max[®]

Cementation of crowns and bridges made easy



The new self-adhesive composite cement SpeedCEM is designed for the cementation of crowns and bridges made of IPS e.max lithium disilicate glass-ceramic (LS₂).

Due to the acidic adhesive monomer contained in the cement, SpeedCEM does not require a bonding agent to establish a bond to enamel and dentin.

The procedure for bonding IPS e.max LS₂ crowns and bridges is therefore reduced to the following steps:

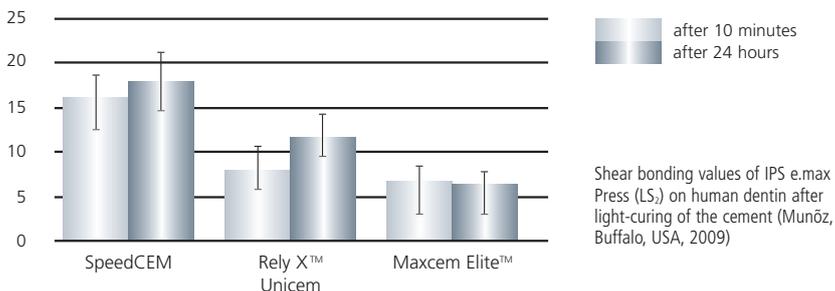
- The inner side of restorations made of IPS e.max LS₂ is etched with 5% hydrofluoric acid (e.g. IPS Ceramic Etching Gel) for 20 seconds. Subsequently, the acid is rinsed off and the restoration is dried.
- The new universal primer Monobond Plus is applied. After a reaction time of 60 seconds, excess is dispersed with a stream of air. The restoration is now ready for placement.
- The ready-mixed SpeedCEM is directly extruded into the restoration from the automix syringe and the restoration is seated in place.

- After excess cement has been tack-cured with a polymerization light using the "quarter technique" (1 second per quadrant), the material is easy to remove.
- Finally, all the cement lines are light-cured for 20 seconds.

Depending on the indication, SpeedCEM may be used to cement restorations made of other high-strength materials, such as metal, metal-ceramics and oxide ceramics. Conditioning with the universal primer Monobond Plus is unnecessary in these cases, as SpeedCEM generates a bond directly to these materials.

The combination of IPS e.max LS₂ and SpeedCEM offers you the benefits of an integrated product system.

MPa



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Loading of SpeedCEM into an IPS e.max restoration

The ideal combination for bonding customized abutments

A study on Multilink Implant[®] and Monobond Plus[®]

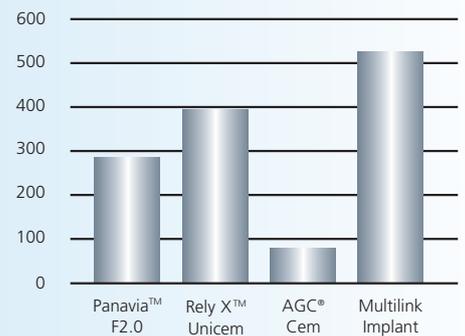


Multilink Implant and Monobond Plus are ideal for bonding customized abutments

made of zirconium oxide ceramics to a titanium base in the dental laboratory.

A study conducted by Rüdiger Meyer (MDT) from Wiernsheim, Germany, came to the above conclusion. In this study, Mr Meyer used a variety of commercially available cementation materials to examine the parameters that influence bonding.

The effects of light-curing on the bonding properties of the cement were investigated in the process:



Tensile strength in N after light-polymerization of 120 seconds in the Spectramat SP1, Meyer, Wiernsheim, Germany, 2009

Panavia F2.0, Rely X[™] Unicem and AGC[®] Cem are not registered trademarks of Ivoclar Vivadent.

Light-polymerization of the cement is preferable to allowing it to self-cure. After light-polymerization, further laboratory procedures can take place immediately, as the application of force on the bonding surface is no longer an issue.



Customized abutment made of zirconium oxide ceramic bonded to the titanium base (pictures courtesy of Benjamin Vottele, MDT, Pfullingen, Germany)

The superior way of tooth isolation

Ivoclar Vivadent has optimized the OptraDam® Plus



The dentist can ensure absolute isolation of the working field in the oral cavity of the patient by means of the three-dimensional OptraDam Plus from Ivoclar Vivadent. The addition "Plus" indicates that the material properties have been optimized and the patient comfort improved.

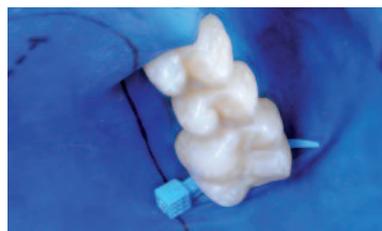
Dentists can use OptraDam Plus to provide absolute isolation of the treatment field. It is a clinical accessory which is shaped to match the anatomy of the mouth. OptraDam Plus consists of a latex sheet with a perforation pattern stretched between two plastic rings. Compared with the predecessor product, the plastic rings of OptraDam Plus are now much more elastic, thus facilitating the placement in the patient's oral cavity. These softer plastic rings make sure that the product is comfortable to wear – even over extended periods of time. What distinguishes OptraDam Plus is the fact that, apart from the perforation pattern being adapted to the anatomy of the tooth arch, the latex material is more elastic. The dentist can therefore optimally isolate teeth, as

it is now easier to pull the material over the teeth and to pass the septa of OptraDam Plus through the proximal contacts. As opposed to the conventional rubber dam, dentists can isolate single teeth quickly and easily using OptraDam Plus and without requiring the help of a dental assistant.

OptraDam Plus is available in convenient packs of 50 pieces.



OptraDam Plus features optimized material properties.



With the help of one or two wedges, teeth can be easily separated, thus facilitating the placement of the septa through the contact points. If the distal wedge remains in place as a retention element, the use of a rubber dam clamp is not necessary.

The economical alternative

bluephase® C8



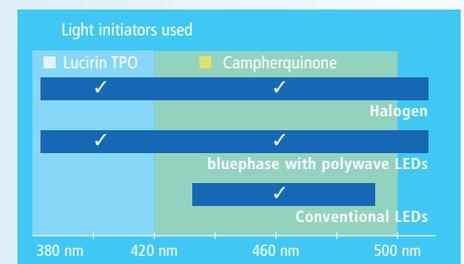
The new LED polymerization light bluephase C8 offers particularly good value for money. It is

the economical alternative to high-performance halogen lights and cordless LED units.

The mains-operated bluephase C8 features a light intensity of 800 mW/cm². Moreover, it is equipped with "polywave" LEDs, which offer a halogen-like broadband spectrum. As a result, all the materials and their light initiators can be cured without any restrictions. The three easy-to-use modes – High Power for fast, Low Power for gentle and Soft Start for stress-reduced polymerization – cover all the indications.

Due to the rotatable, parallel-walled light probe with a 10-mm diameter – for extra-large treatment fields – restorations can be cured without requiring several curing cycles. Furthermore, the elegantly designed unit enables proximal boxes to be cured without any problem. The design and quality of bluephase C8 are based on the cordless high-performance bluephase LED curing light. The unit comes with a three-year warranty.

Every material due to polywave



What could not be achieved with the second-generation LED lights has now become a reality with the in-house development of the "polywave" LEDs: a halogen-like broadband spectrum of 380 to 515 nm.



The economical version of bluephase: bluephase C8 featuring 800 mW/cm².

Top marks for bluephase



Does the new bluephase keep its promises? A total of 173 dentists in Germany and Italy were asked to give their opinion. The results of the survey do us proud.

The three most important findings of the bluephase survey:

- 86% of the dentists questioned are satisfied bluephase users
- 78% would buy the unit again and 84% would recommend the unit to colleagues
- 93% rate the image of Ivoclar Vivadent as being good to very good in the field of LED polymerization lights

Source: study conducted for Ivoclar Vivadent AG by Key-Stone, May 2009.

Clearly focused

Three competence areas

Ivoclar Vivadent concentrates its activities on three competence areas, that is composites, all-ceramics and implant esthetics.



Competence in Composites

The combination of high-quality composite resins from Ivoclar Vivadent and matching bonding agents, curing lights and patient-friendly auxiliary aids ensures smooth direct restorative procedures.



Competence in All-Ceramics

With IPS Empress and the advanced IPS e.max, Ivoclar Vivadent sets the standard for esthetics and efficiency in all-ceramics.



Competence in Implant Esthetics

Products from Ivoclar Vivadent assist in the preparation and fabrication of prosthetic work as well as in the planning of surgical treatment. As a result, they provide the basis for creating esthetic and functional implant-retained restorations.

i-Kids: Pediatric Dental Solutions

Healthy teeth and healthy gums are very important for the overall health of a child and thus for their personal development.



Healthy teeth should stay healthy. Teeth showing lesions should be adequately restored. Restored teeth should receive

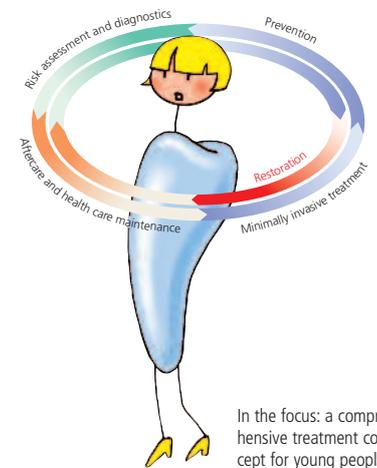
the care they need. That is why you need professional solutions to offer children and adolescents of different ages customized oral health management.



With i-Kids, Ivoclar Vivadent is here to fulfil your needs when treating young patients. The special program offers quality products and services which allow you to implement your treatment strategies efficiently and effectively in children and adolescents, providing solutions for risk analysis and diagnostics, prevention, conservative dental treatment or restoration as well as maintenance and aftercare.

A coordinated product range composed of coordinated individual products enables you to offer individualized oral health management. Products for diagnostic, therapeutic, restorative and maintenance procedures are available. All products have shown their effectiveness in

international studies and in clinical use. With i-Kids, you can create a practice environment with a positive feel.



In the focus: a comprehensive treatment concept for young people.



With i-Kids, young patients feel comfortable.

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