



update



03|2010

NEWS FROM THE DENTAL WORLD BY IVOCCLAR VIVADENT

Editorial



Dear Customer

We are pleased to see that the dental health segment seems to be recovering particularly quickly and successfully from the effects of the worldwide economic crisis. Dentists and dental lab technicians are showing an increased tendency to invest in equipment, which comes as a result of the growth in demand for prosthodontic and restorative treatment. This issue of Update provides you with an overview of how Ivoclar Vivadent is reacting to these latest trends.

For example, we have further developed our ceramic and press furnaces from the Programat series by enhancing their performance and by making them more energy efficient and environmentally friendly. We have also responded to customer requirements regarding the characterization of direct restorations created with IPS Empress Direct. Due to the heightened esthetic properties of the material, a filling placed with IPS Empress Direct material can now hardly be distinguished from a restoration made with IPS Empress ceramic.

Furthermore, we would like to direct your attention to our advanced preventive care and aftercare solutions for young dental patients (i-Kids) and implant patients (Implant Care): for example, Fluor Protector in the new convenient VivAmpoule and the extended line of Cervitec products. We invite you to learn more about our product highlights for autumn 2010 in this issue of Update. All of us at Ivoclar Vivadent and our dental trade partners are happy to be of assistance if you need further information or advice.

Yours

Josef Richter
Chief Sales Officer
Ivoclar Vivadent AG

Sales of Programat ceramic furnaces are soaring



Ivoclar Vivadent's Programat ceramic and press furnaces are very popular among customers, as shown by the market research conducted by Ivoclar Vivadent.

With innovations in the field of firing technology, the operational or multi-media features, the new Programat furnaces have raised the bar. The name Programat is well known in the world of dentistry and evokes associations such as high quality, durability, exceptional firing results and innovative technology.

Programat P500/G2: Adding colour to the lab

The second-generation Programat P500 furnaces make sure that Ivoclar Vivadent furnaces will belong to the top tier of ceramic furnaces also in the future. The ceramic furnace of the second generation is equipped with a touch screen colour display. The clearly arranged icons on the user interface of the display allow data to be easily and conveniently entered and relevant parameters to be quickly read. The firing curve shown in colour and the clearly visible remaining time indicator with a colour progress bar inform users about the current status of the firing process.

A wealth of new features

Other innovations include the "Cooling Shock Protection" (CSP), which reduces stresses in the ceramic due to a special furnace head opening process, and the "Thermo Shock Protection" (TSP) function, which protects the ceramic against thermal shock if the furnace is closed when it is too hot. Moreover, the new Programat P500 incorporates state-of-the-art Power Saving Technology, which cuts the power consumption in the stand-by mode by up to 40%. This reduces energy costs and helps to protect the environment.

Built on proven technology

Apart from all these new features, Programat P500 continues to offer proven characteristics, such as quartz tube heating muffle technology, automatic double-range calibration, USB ports as well as the combination of a membrane-sealed keypad and touch screen.



Bond strength is given a big plus



The renowned Clinicians' Report, an independent organization that offers dentists a research-based product review, compared 12 self-adhesive resin cements with 2 adhesive luting composite systems in its November 2009 issue. The conclusion of the study: Multilink Automix achieves bond

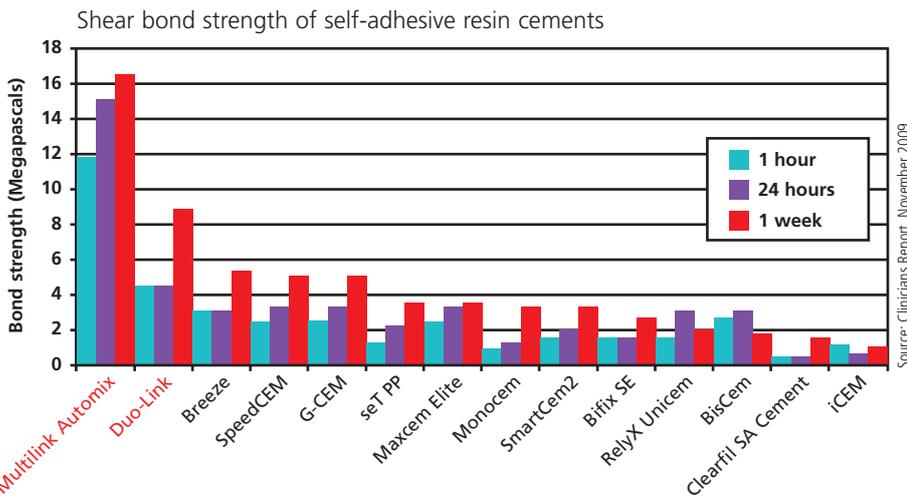
strength values that are clearly superior to those of the self-adhesive resin cements tested.

In the course of the study, the test samples were subjected to shear bond strength testing after 1 hour, 24 hours and one week. Multilink Automix showed higher bond strength values than the self-adhesive products at all stages.

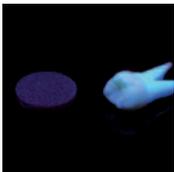
Multilink Automix is convenient to use and performs well in practically all indications. No matter whether inlays, onlays, partial crowns, crowns or bridges made of silicate- or glass-ceramic, oxide ceramic, base-metal or noble-metal alloys are cemented:

Multilink Automix ensures a strong bond to the tooth structure. This is achieved by means of the universal curing mode (self-curing with optional light-curing), direct application of the cement from the automix syringe and the patented Monobond Plus universal primer.

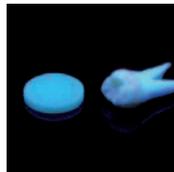
In addition, the lifelike fluorescence as well as the high radiopacity make Multilink Automix stand out among the resin cements.



Comparison of fluorescence and radiopacity:



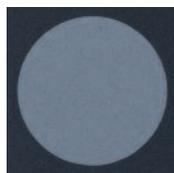
Fluorescence of Panavia F2.0, light, compared with that of a natural tooth.



Fluorescence of Multilink Automix transparent compared with that of a natural tooth.



Panavia F2.0, light, features a radiopacity of 102% AL.



Multilink Automix transparent features a radiopacity of 377% AL.

Source: In-house data R&D 2010, Ivoclar Vivadent AG, Schaan, Liechtenstein

Tooth and core shade selection made easy



IPS e.max CAD/Press shade selection wheel

Smooth integration of ceramic restorations in the natural dentition of the patient is requisite for natural-looking, esthetic results. In order to achieve this goal, not only the tooth shade, but also the shade of the tooth core needs to be properly determined.

The new IPS e.max shade selection wheel helps to locate the most suitable ceramic material for the case at hand.



New autoclavable shade guide



Simple hygiene – simply great

The shade guides for the products IPS e.max, IPS Empress, IPS d.SIGN, IPS InLine and SR Adoro are now autoclavable. After use, the individual shade tabs or the entire shade guide can be autoclaved and therefore easily sterilized. Therefore, cross-contamination is prevented.



Simple hygiene: The individual shade tabs or the shade guide in its entirety can be sterilized.

IPS Empress® Direct



Providing the esthetics of ceramic with the convenience of composite: IPS Empress Direct is the only direct composite in Empress quality.

For 20 years, the name IPS Empress has been associated with the highest level of esthetics in the reconstruction of dental defects. IPS Empress Direct is the latest addition to the IPS Empress System. It combines the esthetics of a ceramic with the application advantages of composite.

The light-curing nano-hybrid composite IPS Empress Direct is available in 32 shades and 5 translucencies. It is designed for the fabrication of direct esthetic restorations in the anterior and posterior region.

The highlights:

- Convenient handling due to the balanced filler and monomer composition

- Shade matching has been further refined with the help of specialists from the field of ceramic and composite development. As a result, restorations with lifelike, natural shading are achieved.
- Due to the special filler composition, the material polishes to a high-gloss shine.
- A special layering scheme is not required to achieve highly esthetic results.

The current promotional offer allows dentists to experience the convenient and smooth consistency of IPS Empress Direct. Only a few selected shades suffice to achieve highly esthetic results.



Ronald D. Jackson
DDS, FAGD, AFAACD, DABAD

“ Because of its natural, lifelike beauty, IPS Empress has always enjoyed an excellent reputation among experts. Now there is a composite restorative that is in no way inferior: IPS Empress Direct. ”



Preoperative situation



IPS Empress Direct composite veneer

IPS Empress Esthetic ceramic crown

Pictures: Ronald D. Jackson

IPS Empress® System

Press

CAD/CAM

Composite



IPS Empress Esthetic



IPS Empress CAD



IPS Empress Direct

Cervitec®



For customized oral health management: Cervitec Plus, Cervitec Gel and the new Cervitec Liquid

Liquid play a significant role in keeping teeth, crowns, bridges and implants in excellent condition for a long time.

A high number of certain bacteria in the mouth will compromise the health of teeth, gums and the oral mucous membrane. Apart from these tissues, implants, dentures and dental restorations are also at risk.

Cervitec Liquid is a ready-for-use alcohol-free antimicrobial mouth rinse containing 0.1% chlorhexidine. This active ingredient is considered to be the gold standard for disinfecting the mouth. Chlorhexidine plus xylitol plus essential oil inhibit the growth of the bacteria that compromise oral health.

The Cervitec products support the customized treatment of patients in the dental office and at home.



The Cervitec products keep bacteria in check.

IDS 2011 in Cologne: Save the date

The 34th International Dental Show (IDS), the world's leading trade fair for the dental industry, will take place from 22 to 26 March 2011. Ivoclar Vivadent will again take advantage of this event to introduce a number of exciting new products. Pay us a visit and let us surprise you.

Fluor Protector – strong duo with fluoride and more



Fluor Protector in the innovative VivAmpoule and Fluor Protector Gel with the special protective formula.

VivAmpoule is a new delivery form which has been developed for the clinically proven Fluor Protector fluoride varnish. The innovative “snap-off” feature of the VivAmpoule enables the vessel to be opened quickly and easily. VivAmpoule is comfortable to hold and it stands upright by itself. The new VivaBrush G applicator enables the varnish to be applied in smooth, thin layers on large and small surfaces.

Fluor Protector offers professional protection against tooth sensitivity, caries and dental erosion. After the varnish has dried, it is no longer visible on the teeth.

International clinical studies and many years of practical experience confirm the effectiveness of the varnish. Fluor Protector Gel with its protective formula of “calcium plus fluoride plus phosphate” supplements the action of the protective varnish. The components of the oral care gel protect the teeth and repair and strengthen weakened dental enamel. Moreover, the gel contains xylitol, which inhibits the growth of caries-causing bacteria, and the pro-vitamin D-panthenol, which conditions the gums.

The pleasant light mint taste and the perceptible smoothness of the teeth after the treatment with Fluor Protector Gel leave a good feeling in the mouth.



A strong duo: Fluor Protector varnish in the new VivAmpoule and the oral care gel Fluor Protector Gel.

Effective polishing with OptraPol® Next Generation



Exceptionally lustrous restoration surfaces in just one step – with the new, effective polishing system OptraPol Next Generation.



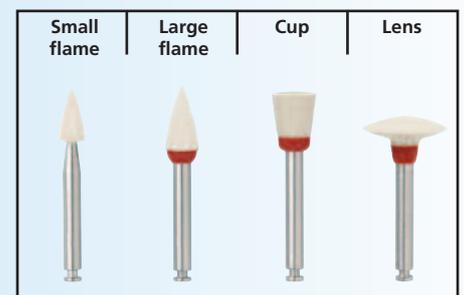
Picture: Dr. M. Dieter, Ivoclar Vivadent AG, Schaan

These premium one-step silicone polishers are highly filled (up to 72 wt%) with micro-fine diamond crystals. Consequently, the results of the excellent polishing performance are visible within seconds. Highly esthetic composite restorations exhibit a long-lasting natural-looking lustre.

The polishers effectively remove any surface roughness in one step and leave restorations, e.g. made of Tetric EvoCeram®, looking exceptionally smooth and shiny. As a result, the restorations are less susceptible to staining and the accumulation of plaque. The polishers are wear resistant and dimensionally stable and thus very long-lasting. They can be autoclaved up to 20 times and reused. Therefore, these premium diamond polishers are extremely economical. OptraPol Next Generation is suitable for finishing and polishing all popular dental resin composite restoratives.



The Lens polisher shape has been newly added to the range.



The four polisher shapes available

SR PHONARES® for high-quality dentures



Increasingly, SR PHONARES establishes itself as the tooth line for high-quality removable dentures.

Not only the esthetic aspects of SR PHONARES such as tooth shape, surface texture, shading and translucency convince users, but the developers also succeeded in including exceptional technical features which increase the quality of the denture. The special Set & Fit design of the proximal surfaces of the anterior teeth allows them to be set up in an interlaced, customized fashion. Moreover, the Set & Fit design supports the dominant white esthetics in the anterior region. The dental technician saves time during the tooth set-up and contouring of the gums. A positive side effect: The dimensions of the denture teeth allow common construction components to be reliably covered.



SR PHONARES® NHC anterior tooth set-up by MDT Thorsten Michel, Schorndorf (Germany)

The universal design of the central fossa of SR PHONARES Lingual lower teeth allow for two different intercuspatation options: Either a one-to-one or a one-to-two setup is possible. This gives the technician more flexibility and requires only a small stock to be kept.



One-to-one setup

Universal design of the central fossa



One-to-two setup

Esthetic veneering of metal frameworks in one step



IPS InLine® One is a modern one-layer metal-ceramic for quick and efficient layering.

Users can save much time and material by using IPS InLine One. Furthermore, the layering materials are easy to apply.

Coordinated properties

The layering materials IPS InLine One Dentical combine the properties of dentin and incisal materials. Chroma and translucency are coordinated with each other in a balanced way and thus provide IPS InLine One restorations with a consistent, natural shade. The veneer can then be individually characterized using the existing Shade and Stains materials of the IPS InLine system. The fine-grain materials are particularly convenient to use, very easy to apply and furthermore show a good sintering behaviour.

IPS InLine One has also been optimally coordinated with the Ivoclar Vivadent alloys – from high-gold to palladium-based and base metal alloys. Restorations can be fabricated in an especially economical fashion if Colado CC, the new cobalt-chromium base metal alloy, is used.

This alloy offers outstanding bond strength values to IPS InLine One and can be used for a wide range of indications.

Furthermore, it is particularly suitable for implant superstructures. In addition to being resistant to wear, this alloy also offers confirmed and certified bio-compatibility.



Flexible use

The IPS InLine metal-ceramic system can be processed using various techniques. They include the one-layer technique (IPS InLine One), conventional layering (IPS InLine) and the Press-on-Metal technique (IPS InLine PoM).

The IPS InLine system offers a range of system components which can be used for all three techniques. For example, the same opaquer is used regardless of the technique applied. Due to the compatible system components, the metal-ceramic system remains slim as regards the number of materials and at the same time offers high flexibility of use.



Veneering metal restorations in just one step with IPS InLine One

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Temporary restorations out of one hand



With the Telio product system, dentists, dental technicians and CAD/CAM users are offered an ideally coordinated solution composed of compatible products.

Temporary restorations are gaining in importance. The trend is moving from short-term temporaries to temporaries that are worn for longer periods of time, such as temporaries in implant dentistry. Temporary restorations play a central role in treatment planning. They provide an effective preliminary view of the final result. The functional and esthetic properties of the final restoration can be predetermined and adjusted as necessary.

This is where Telio is needed. This comprehensive material system for temporary restorations offers solutions for dentists (Telio CS products), dental technicians (Telio Lab) and CAD/CAM users (Telio CAD). All materials are compatible with each other and their shades are optimally coordinated. The Telio Lab or Telio

CAD restorations fabricated in the lab are sent to the dentist, who can use the chairside Telio products in the further course of treatment. The dentist therefore enjoys a high degree of flexibility.

The system will be expanded to include two temporary filling materials with different levels of elasticity, which are adequate for the respective indication. Telio CS Inlay and Telio CS Onlay are light-curing single-component materials which contain a cariostatic and antibacterial agent and are used for the temporary treatment of Class I and Class II cavities. An additional temporary cement is not required. The materials are available in the shades Transparent and Universal and are supplied in syringes and Cavifils.

