

Empress® SYSTEM

The ultimate esthetic restorative system



Empress®

A TIME-TESTED SYSTEM...

For nearly 20 years, IPS Empress® has been associated with the highest level of esthetics in the reconstruction of dental defects. More than 40 million restorations speak for the durable lifelike appearance, the continuing success and the high quality standard of the material.

The IPS Empress System has been further developed and continues to enthuse users with decisive improvements in terms of esthetics, function and processing.

In 2004, the system was further expanded and optimized with the introduction of the new **IPS Empress Esthetic** pressable ceramic.

This was followed by the release of **IPS Empress CAD** in 2006, creating an opportunity for esthetic restorations to be milled using CAD/CAM technology now also at the chairside.



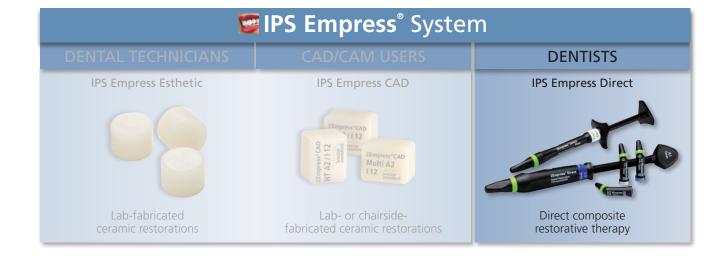


IPS Empress Direct®, which was introduced in 2009, is the latest addition to the IPS Empress System. This composite material for direct restorative procedures provides dentists with the esthetics of a ceramic with the convenience of composite.

The 3 flowable **IPS Empress Direct Flow "Art"** materials have been launched in 2010 in order to enable users to optimally refine restorations fabricated with this material by adding individual characterizations. In 2011, **IPS Empress Direct Color** will be introduced and supplied in 7 characterization shades. The opaquer **IPS Empress Direct Opaque** will round off the system range.

HIGHLIGHTS

- Highly esthetic all-ceramic restorations
- Proven ceramic material with a flexural strength of 160 MPa
- 20 years of experience with leucite glass-ceramics
- Same materials composition for IPS Empress Esthetic and IPS Empress CAD



Empress®

THE MATERIAL PROVEN AND ESTHETIC

Twenty years of clinical experience give you a good feeling. You can depend on the timetested and esthetic IPS Empress system.

The IPS Empress all-ceramic material is made of an extremely homogeneous leucite-based ceramic, which scatters light like natural enamel and blends in well with its surroundings. This material impresses users with its lifelike translucency and trueto-nature esthetic properties.

As the press ceramic **IPS Empress Esthetic** and the ceramic blocks **IPS Empress CAD** are based on the same materials composition, the two products demonstrate exceptional light-optical properties and strength values of 160 MPa.

The highly esthetic all-ceramic single-tooth restorations, such as inlays, onlays, crowns and veneers, blend in seamlessly with the surrounding dentition.



SEM images of IPS Empress Esthetic and IPS Empress CAD Source: R&D, Ivoclar Vivadent AG, Schaan, 2006

SHADE SELECTION ESTHETIC AND NATURAL-LOOKING

The accurate shade is the basis for a true-tonature restoration, as a lifelike appearance depends on:

- The shade of the preparation
- The shade of the restoration (ingot/block/layering material)
- The shade of the cementation material

The IPS Natural Die Material shade guide helps determine the shade of the prepared tooth. The shade of the restoration results from the determined shade of the preparation and the desired tooth shade.

In response to the growing demand for lighter tooth shades, 4 bright, modern Bleach shades (BL1 to BL4) are available.



OptraGate is a helpful accessory during shade determination. The elastic lip and cheek retractor gives the practitioner easier access to the oral cavity and enlarges the treatment field. Furthermore, it is very comfortable for patients to wear.







Empress®

PREPARATION MINIMALLY INVASIVE AND CONSERVATIVE

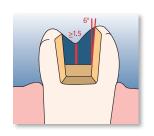
Careful preparation is decisive for the durability and fit of the restoration. Minimally invasive preparation helps to preserve tooth structure.

It is important to properly design the margin with a circular shoulder or chamfer with rounded inner edges. Transitions with sharp angles and feather edge margins must be avoided.

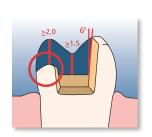
In order to achieve a stable restoration, the minimum wall thicknesses have to be observed.



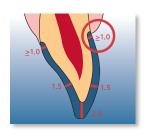
Veneer



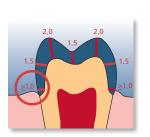
Inlay



Onlay



Anterior crown



Posterior crown

IPS Empress Esthetic Veneer adhesively cemented with Variolink® II / ExciTE® DSC

Tooth 21 with discoloured composite build-up



Preparation for IPS Empress Esthetic Veneer



Etch the veneer with IPS® Ceramic Etching Gel and



Silanize the veneer with Monobond® Plus



Etch the enamel with phosphoric acid (Total Etch)



Etch dentin with Total Etch



Rinse off phosphoric acid with water spray



Apply ExciTE DSC to the enamel and dentin and disperse with air



IPS Empress Esthetic Veneer seated with Variolink II

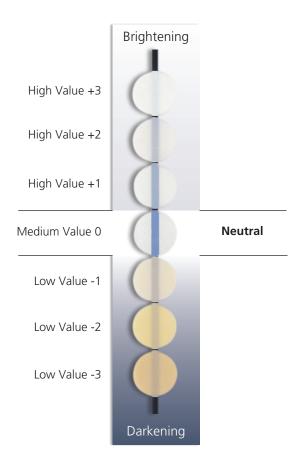


Dr Dr Andreas Rathke, Urs Spirig



CEMENTATION ADHESIVE AND PROVEN

In the adhesive cementation of your IPS Empress restorations you can depend on the clinically proven Ivoclar Vivadent cementation materials.



The light-curing **Variolink® Veneer** has been specially developed for placing highly esthetic translucent restorations, such as veneers.

As a result of the value shade concept, this material allows the shade to be brightened or darkened in several steps.

IPS Empress CAD

onlay adhesively cemented with Variolink® II / Syntac®

Tooth 26 with amalgam filling



Preparation for an IPS Empress crown



Etch crown with **IPS** Ceramic Etching Gel and rinse



Silanize crown with Monobond Plus



with phosphoric acid (Total Etch)



Application of the Syntac adhesive system (3 steps)



Adhesive cementation with Variolink II



the OptraFine polishing system



IPS Empress CAD Multi crown seated with Variolink II



Dr Ronny Watzke

The Variolink® II luting composite has been used for more than 10 years and in over 20 million restorations. It is thus the world-leading material concept for highly esthetic applications and links the clinical experience gathered over many years with the proven IPS Empress allceramic.

The **OptraDam** facilitates the adhesive cementation of IPS Empress restorations. As the lips and cheeks are gently retracted around the entire circumference of the mouth, much easier access to a considerably enlarged working area is created. At the same time absolute isolation is achieved.





Multilink® Automix is the most versatile of the luting composites.

It is applied quickly and easily in combination with the self-etchina Multilink Primer A/B

Apart from its wide range of indications. Multilink Automix demonstrates excellent bonding and dentin sealing properties.

The high light intensity of the bluephase® curing unit reduces the light-polymerization times.

The unit has three different curing modes and is operated without a power cord, which additionally simplifies working procedures.

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✓ -
V V
V V
V

✓ Especially recommended — Not recommended



THE SUCCESS RATE ACHIEVED WITH IPS EMPR



Dr John Roberts

IPS Empress has always given me great results. With IPS Empress Esthetic I am achieving even better results with more lifelike restorations.

The improved ingots and the wider shade range give me the highly esthetic results my patients demand.





Ronald D. Jackson DDS, FAGD, AFAACD, DABAD

Because of its natural, lifelike beauty, IPS Empress has always been in a class by itself.

Not anymore. It's been matched by a composite, IPS Empress Direct.

ESS® IS CONVINCING!

Restorative work by Dr John Roberts / Matt Roberts



Restorative work by Dr Ron Jackson

IPS Empress Direct® Class IV restoration

Large, defective restorations in teeth 12 and 11



Extensive lesions after excavation and bevelling of the margins



Conditioning with Total Etch



The palatal enamel wall is rebuilt with IPS Empress Direct Enamel



Polymerized palatal enamel shell after removal of the silicone matrix



Reconstruction of the anatomically shaped dentin



Reconstruction of the distal surface with a lighter enamel shade



Reconstruction of a large part of the facial surface



Completed and polished IPS Empress Direct restoration



Dr Arnd Peschke

Additional information is available about IPS Empress Direct, the chairside application of IPS Empress CAD and the IPS Empress System in the dental laboratory.

Moreover, detailed information about our cementation materials can be found in the respective product brochures.

We offer a special patient information brochure which provides patients with information about the subject of all-ceramics.
For more detailed information, you can also contact your personal lvoclar Vivadent consultant or visit our website at:

www.ivoclarvivadent.com





This product forms part of our All-Ceramics and Implant Esthetics competence areas. All the products of these areas are optimally coordinated with each other.

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