

IPS Empress® Direct

The highly esthetic composite



Effortless dental
masterpieces

Efficient
Esthetics

ivoclar
vivadent
passion vision innovation

The composite for **highly esthetic** fillings

IPS Empress® Direct is a highly esthetic composite for filling cavities in anterior and posterior teeth. It is available in five different translucency levels. Therefore, different types of anatomical features can be faithfully reproduced.

Lifelike shades for natural-looking restorations

Easy application of shade nuances with **Trans Opal**

Long-lasting esthetic results

Convenient handling for sophisticated requirements

Clever mastery of demanding restorations





More than

25

million restorations
placed worldwide¹

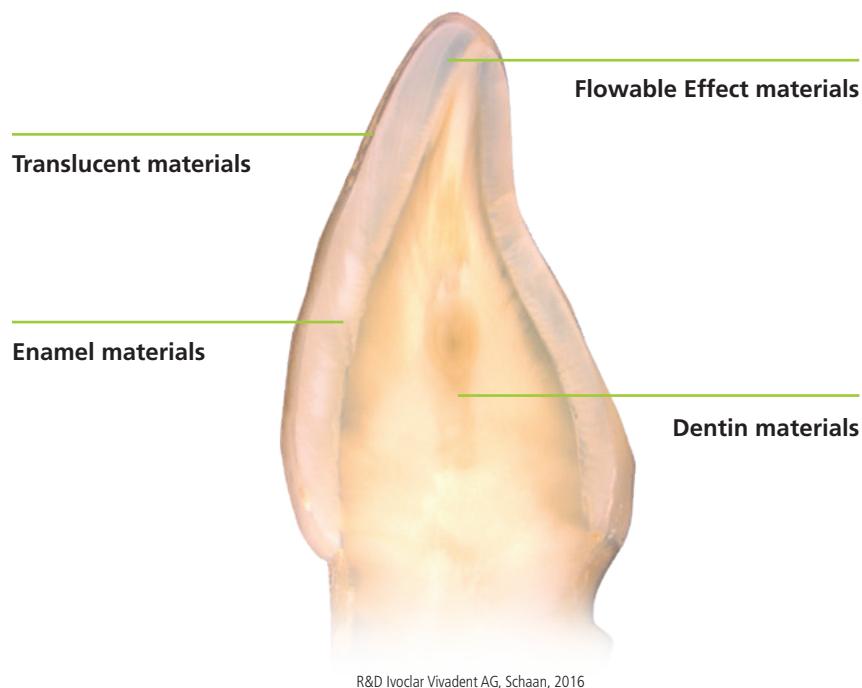
¹ Based on sales figures

Lifelike shades for natural-looking restorations

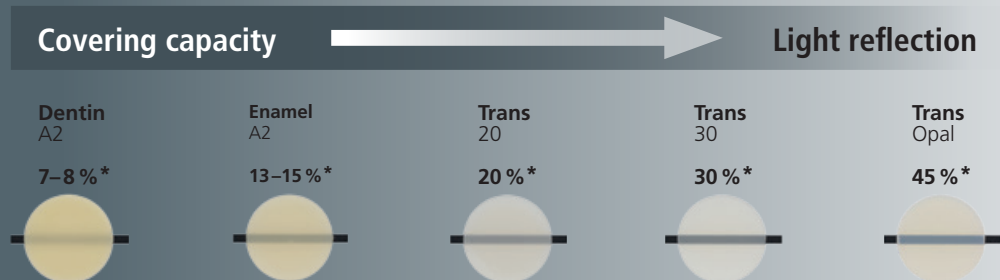
Since the dentin and enamel parts of the tooth do not have the same translucent properties, more than one single shade is needed to imitate the natural tooth structure and all its special optical features.

The IPS Empress Direct shade system is based on the principle that dentin structure is replaced by a dentin substitute and enamel structure by an enamel substitute. The dentin materials feature true-to-nature opaque properties and therefore influence the overall shade from within the tooth. The enamel

materials are more translucent. This allows light to scatter naturally in the dentin material. The three additional materials Trans 20, Trans 30 and Trans Opal are available for controlling light reflections in the incisal region. These effects closely imitate those of the existing tooth structure.



R&D Ivoclar Vivadent AG, Schaan, 2016



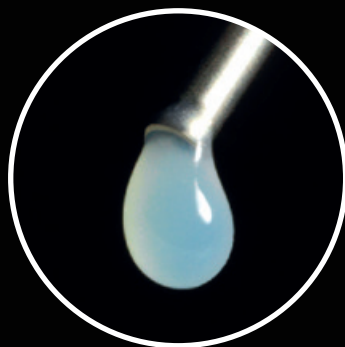
* Sample value, Technical Data Sheet, Ivoclar Vivadent AG



Easy application of nuances with **Trans Opal**

In the teeth of young people in particular, the opalescent effect of the enamel manifests itself in a bluish-translucent appearance of the incisal edge. Opalescence is generally described as a light-scattering phenomenon within a translucent substance. An opalescent material has a bluish shimmer in reflected light. However, it has a reddish-orange appearance in transmitted light. The Trans Opal material allows these demanding shade requirements to be faithfully reproduced in one step due to its special micro-opal fillers.

Reflected light



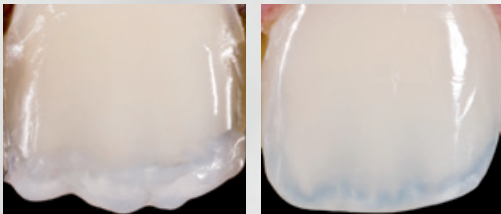
Transmitted light



True-to-detail characterization with **flowable Effect materials**

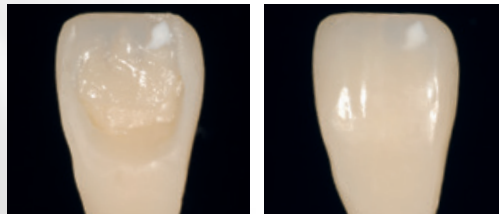
With the flowable characterization materials of the IPS Empress Direct Effect and IPS Empress Direct Color ranges any restorations can be creatively customized. The materials are simply applied just underneath the final covering layer.

Accentuation of mamelons and application of opalescent effects with IPS Empress Direct Effect Trans Opal



Dr Eduardo Mahn, Director Clinical Research,
Universidad de los Andes Santiago, Chile

Application of fluorosis marks with IPS Empress Direct Color white



Dr Markus Lenhard, Switzerland

Imitation of enamel cracks with IPS Empress Direct Color ochre and brown



Dr Anton Lebedenko, Professional Service,
Ivoclar Vivadent AG, Liechtenstein

Precise shade selection

Two autoclavable shade guides, one for enamel and one for dentin materials, facilitate the selection of the suitable shade. The shade samples are made of superior quality ceramic. This assures optimum shade stability and therefore reliable shade selection.



“ There is no simpler or more efficient way to reproduce the effect of natural opalescence. IPS Empress® Direct Trans Opal is easy to polish and a high-gloss finish is achieved. ”

Dr Markus Lenhard
Switzerland





A long-lasting smile

Restorations made with IPS Empress Direct last for a long time. Since its introduction, IPS Empress Direct has been one of the leading esthetic composites on the market. More than 25 million fillings have been placed with the composite throughout the world*. Many happy and satisfied patients attest to the product's long-lasting and esthetic properties. The case of a 33-year-old patient shows that the esthetic results remained constant over a seven-year period. Very little wear occurred.

* Based on sales figures

Starting situation, 2007



Recall appointment after one week



Recall appointment after seven years, 2014



Dr Eduardo Mahn, Director Clinical Research, Universidad de los Andes Santiago, Chile



Excellent longevity and esthetics

A study conducted by Prof. Dr Cerutti of Brescia University in Italy involved a total of 40 Class IV restorations, of which 20 were placed with IPS Empress Direct. After five years, 19 of the IPS Empress Direct restorations were checked. All of them were still *in situ* and intact. The data of the study confirms the excellent clinical performance and esthetic appearance of the restorations.

Ivoclar Vivadent AG, Liechtenstein, 2015

Convenient handling and long-lasting gloss

A special filler formula is responsible for the excellent handling properties of the materials. They are easy to sculpt and contour and they nevertheless hold their shape. They adapt very well to the cavity wall, thereby reducing the risk of marginal gap formation and enhancing the clinical reliability of the procedure. Due to the optimum distribution of the different sized filler particles, IPS Empress Direct is efficiently polished to a long-lasting high gloss using the one-step OptraPol polishers.

Clever mastery of demanding restorations

The IPS Empress Direct shade system is logically designed and therefore exceptionally easy to use: a dentin substitute replaces natural dentin and an enamel substitute replaces natural enamel. As a result, shade selection is a straightforward process and the material can be layered intuitively, even in complex cases.

Only a few steps to
lifelike restorations



“ Anyone can become a master at creating highly esthetic composite restorations in only five steps. ”

Dr Eduardo Mahn, Director Clinical Research
Universidad de los Andes Santiago, Chile



Long working time
of more than 300 seconds¹

Short polymerization time
from 5 seconds; standardized for all shades²

Quick polish to a
high gloss finish

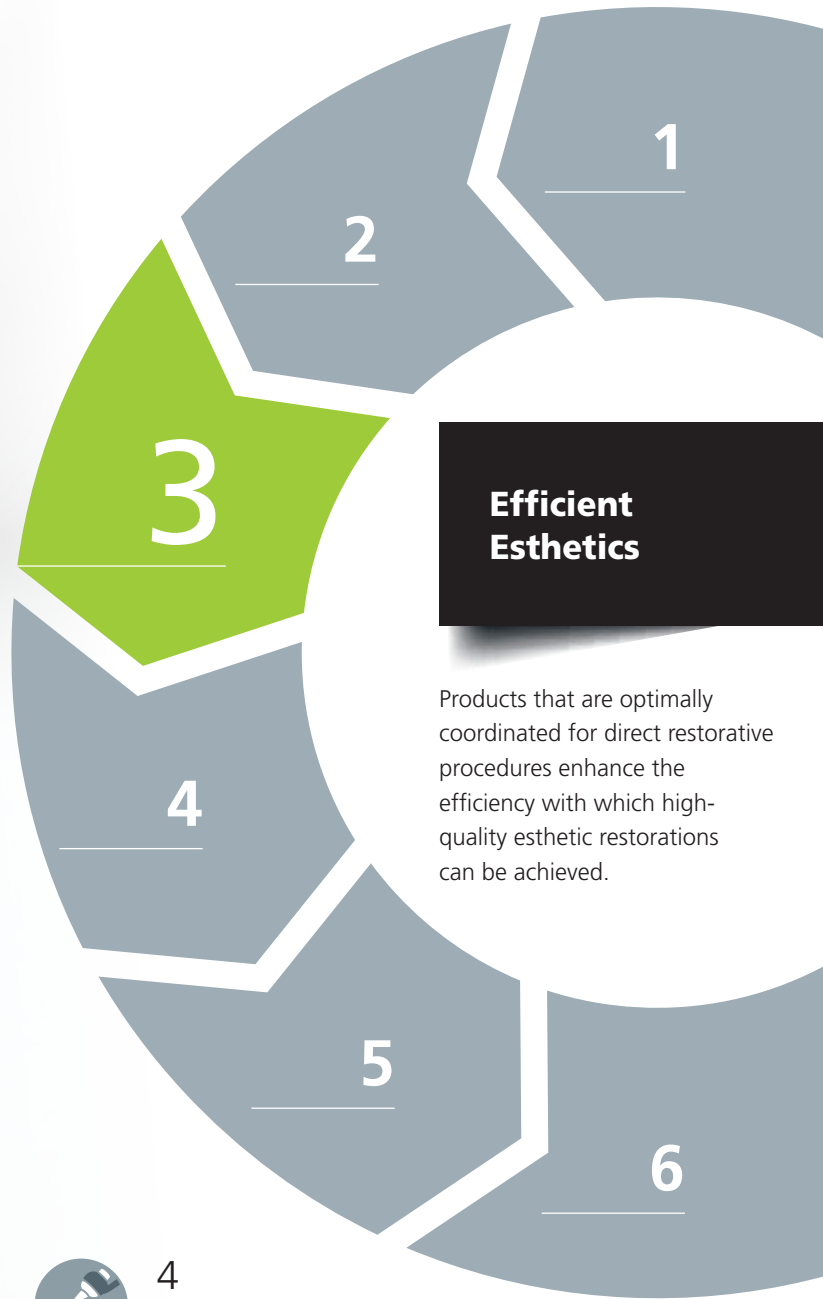
Very good radiopacity
of more than 250 % Al³

¹ Example value
² with Bluephase 2.0i
³ Example value, || PS Empress Direct Enamel



Click here for the video:
www.ivoclarvivadent.com/EmpressDirect-en





Efficient Esthetics

Products that are optimally coordinated for direct restorative procedures enhance the efficiency with which high-quality esthetic restorations can be achieved.



1 Isolate

Effective isolation with **OptraGate**[®], cotton rolls and saliva ejector



2 Bond

Direct intraoral application of the adhesive **Adhese**[®] **Universal** with the efficient VivaPen[®]



Restore

IPS Empress[®] **Direct** for natural-looking esthetic fillings

3



4 Contour

Time-saving contouring with **OptraSculpt**[®] due to its anti-stick effect



5 Cure

Reliable and fast curing with the **Bluephase**[®] curing units



6 Polish

High-gloss polishing in only one step with **OptraPol**[®]

Delivery forms

Refills

Sculptable consistency available in 1 x 3-g syringe or 10 x 0.2-g Cavifils

IPS Empress Direct Dentin	A1 A2 A3 A3.5 A4 B1 B2 C3 D2 IVA5 IVA6 Bleach L Dentin Bleach XL Dentin
IPS Empress Direct Enamel	A1 A2 A3 A3.5 A4 B1 B2 B3 B4 C1 C2 C3 D2 D3 Bleach L Enamel Bleach XL Enamel
IPS Empress Direct Translucent	Trans 20 Trans 30 Trans Opal

Flowable consistency available in 1 x 1.8-g syringe (including 5 tips)

IPS Empress Direct Effect	Trans 30 Trans Opal Bleach XL
IPS Empress Direct Opaque	Opaque

IPS Empress Direct Color available in 1 x 1-g syringe (including 5 tips)

IPS Empress Direct Color	white honey blue violet ochre brown grey
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IPS Empress Direct System Kits

SYRINGES

686071AN

2 x 3 g Dentin (A2, A3)
 3 x 3 g Enamel (A1, A2, A3)
 1 x 3 g Trans 30
 1 x 1.8 g Effect Trans Opal
 1 x 1.8 g Opaque
 1 x Autoclavable Shade Guide Dentin
 1 x Autoclavable Shade Guide Enamel/Translucent
 Various accessories

686072AN

2 x 3 g Dentin (A2, A3)
 3 x 3 g Enamel (A1, A2, A3)
 1 x 3 g Trans 30
 1 x 1.8 g Effect Trans Opal
 1 x 1.8 g Opaque
 1 x OpraSculpt Pad Instrument
 1 x OpraSculpt Pad Refill (4 mm)
 1 x Autoclavable Shade Guide Dentin
 1 x Autoclavable Shade Guide Enamel/Translucent
 Various accessories

CAVIFILS

686093AN

20 x 0.2 g Dentin (A2, A3)
 30 x 0.2 g Enamel (A1, A2, A3)
 10 x 0.2 g Trans 30
 1 x 1.8 g Effect Trans Opal
 1 x 1.8 g Opaque
 1 x Autoclavable Shade Guide Dentin
 1 x Autoclavable Shade Guide Enamel/Translucent
 Various accessories

686095AN

20 x 0.2 g Dentin (A2, A3)
 30 x 0.2 g Enamel (A1, A2, A3)
 10 x 0.2 g Trans 30
 1 x 1.8 g Effect Trans Opal
 1 x 1.8 g Opaque
 1 x OpraSculpt Pad Instrument
 1 x OpraSculpt Pad Refill (4 mm)
 1 x Autoclavable Shade Guide Dentin
 1 x Autoclavable Shade Guide Enamel/Translucent
 Various accessories

IPS Empress Direct Color Assortment

637898AN

7 x 1 g IPS Empress Direct Color
 1 x 1.8 g IPS Empress Direct Opaque
 Various accessories

Accessories

Tips 20 x 0.4 mm

634847
 IPS Empress Direct Color



Tips 20 x 0.9 mm

634849
 IPS Empress Direct Effect
 IPS Empress Direct Opaque



IPS Empress Direct Pad

628369



Autoclavable Shade Guide

Enamel/Translucent
627215



Autoclavable Shade Guide

Dentin
627214





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