

# Tetric<sup>®</sup>

The composite



**The solution**  
for all cavities

Efficient  
Esthetics

**ivoclar**  
**vivadent**<sup>®</sup>  
passion vision innovation

# The solution for all cavities

---

The Tetric line of products offers four carefully matched composite materials for direct restorative treatments.

**Tetric EvoCeram®** is a sculptable universal composite and **Tetric EvoFlow®** is a flowable universal composite for anterior and posterior restorations.

**Tetric® PowerFill** is a sculptable and **Tetric® PowerFlow** a flowable posterior 4-mm composite with light-curing times starting from 3 seconds.



chameleon effect ensures  
**a natural shade blend**

**true-to-nature esthetics**  
for posterior restorations

**time savings** of  
up to **57%**<sup>1</sup>

**One kit** for  
all cavities

More than

# 220

**million restorations placed worldwide**<sup>2</sup>

---



# 95%

survival rate<sup>3</sup>



<sup>1</sup> Tetric PowerFill and Tetric PowerFlow compared to Tetric EvoCeram and Tetric EvoFlow; data available upon request.  
<sup>2</sup> Based on sales figures.  
<sup>3</sup> A total of 890 fillings were monitored worldwide in seven clinical studies over observation periods ranging from 5 to 10 years. The overall survival rate calculated for Tetric EvoCeram<sup>™</sup> was 95.1 per cent.

# Chameleon effect ensures a natural shade blend

If you want to replace lost tooth structure with a natural-looking esthetic restoration, you will require materials designed to mimic the light optical properties of the natural enamel and dentin as closely as possible.

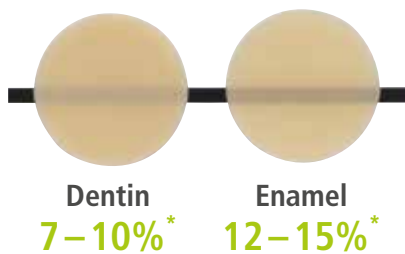
## One universal enamel shade for small defects

When working with the composites, one universal shade is sufficient to achieve a lifelike, esthetic result in most clinical scenarios.

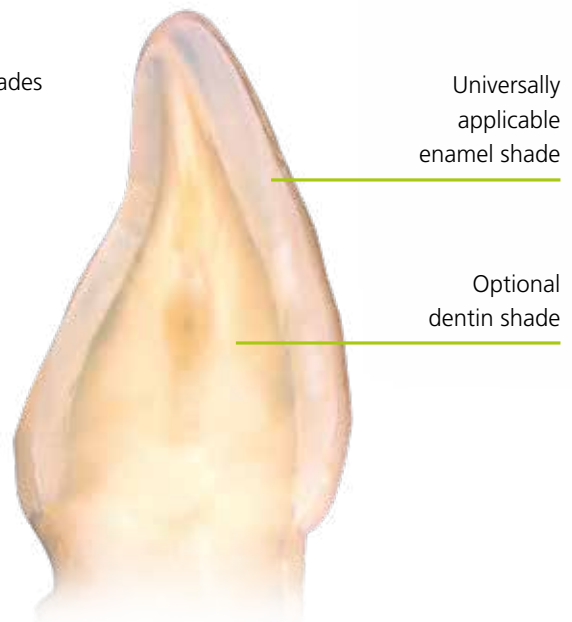
## Additional dentin shades for large defects

Both Tetric EvoCeram and Tetric EvoFlow offer various dentin shades with a low translucency to restore large defects or cavities with heavily stained dentin surfaces.

### Translucency levels of the Tetric EvoCeram® shades



\* Example values



## Anterior restorations made of Tetric EvoFlow® A2 Dentin and A1

Source: Dr Ronny Watzke, Ivoclar Vivadent, Liechtenstein



Starting situation: Diastema and defective fillings in teeth 12, 13, 22 and 23



Final situation



### Exceptional chameleon effect

The special monomer and filler mixture is responsible for the exceptional chameleon effect. This effect ensures a natural shade blend with the surrounding dentition.

The refractive index of the monomer matrix matches that of the fillers - in this case, of the glass rod. It appears nearly invisible.

## Posterior restoration made of Tetric EvoFlow® A2 Dentin and Tetric EvoCeram® A2

Source: Dr Stephanie Huth, Ivoclar Vivadent, Liechtenstein, 2016



Starting situation: Proximal caries on the distal aspect of tooth 36 with occlusal restoration that is still intact

Final result

# True-to-nature esthetics for posterior restorations

---

The 4-mm composites Tetric PowerFill and Tetric PowerFlow allow you to achieve the same esthetic results in the posterior region as with conventional composites.



The highly reactive, patented light initiator **Ivocerin®** has paved the way for the development of Tetric PowerFill and Tetric PowerFlow for esthetic posterior restorations.

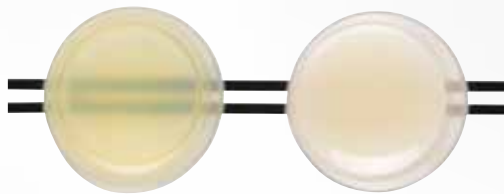
Conventional composites designed for the placement of large increments are often very translucent. Ivocerin-containing composites offer enamel- and dentin-like translucency levels and up to 4-mm increment placements whilst achieving a reliable depth of cure.



The **Aessencio® technology** presents a milestone in the esthetic optimization of 4-mm composites. The material features a high initial translucency to be able to cure to the desired depth of cure. Whilst polymerizing, it gradually changes to a more opaque shade. In the case of Tetric PowerFlow, the final translucency is below 10% – a value that is very close to that of natural dentin. This allows stained tooth structure to be concealed effectively.



The in-vitro test demonstrates the effect of the Aessencio technology:  
The black lines under the Tetric PowerFlow sample are clearly visible before light-curing.  
After curing, they are completely masked due to the change in translucency:



Tetric PowerFlow before and after polymerization

#### **Well-matched materials:**

The different consistencies and shades are uniquely formulated to be used in any combination. Very lifelike posterior restorations are possible, for example, when Tetric PowerFlow and Tetric EvoCeram are combined.



# Higher process reliability due to fewer increments

As they enable a streamlined application protocol, Tetric PowerFill and Tetric PowerFlow are less technique sensitive than conventional composite resins.

The reason: Increased layer thicknesses of up to 4 mm<sup>1</sup> are possible. This makes application of the composite less error prone and increases the ability to achieve successful long-term results.

**reduced risk** for application errors

**reduced risk** for process-related air entrapment

**reduced risk** of insufficient curing



Preoperative situation



Prepared cavity



Baseline



6-month recall  
Source: Dr Lukas Enggist, Ivoclar Vivadent, Liechtenstein

<sup>1</sup> The maximum layer thicknesses recommended for Tetric PowerFill and Tetric PowerFlow have been increased from 2 mm (conventional treatment protocol) to up to 4 mm.



# Fewer errors thanks to short curing times

---

Light polymerization is seen as the most common source of error in direct restorative treatments. An efficient polymerization protocol that minimizes the curing time to the shortest possible length reduces the risks inherent in the light-curing step and increases the quality of the final restoration.

The light intensity produced by the curing device has a decisive effect on the length of time required to polymerize a composite. State-of-the-art curing lights can produce light intensities of up to 3,000 mW/cm<sup>2</sup>. They allow exposure times to be reduced to be as short as 3 seconds in some cases. Should the curing light be accidentally moved during the curing procedure, the intelligent curing assistant of the Bluephase® PowerCure sends out an alert.

In addition, all shades of the Tetric family of products can be cured with the same exposure times.



Light intensity (mW/cm <sup>2</sup> )	Curing time	
500 – 900	20 s	
900 – 1,400	10 s	e.g. Bluephase® G4
1,800 – 2,200	5 s	
2,700 – 3,300	3 s	e.g. Bluephase® PowerCure



# Excellent handling properties to suit every situation

---

Four different composite materials are all you need to meet the requirements of every direct restorative need. And they even offer you flexibility to exercise your personal preferences in your restorative treatments.



## Sculptable handling and reduced stickiness

---

The reduced stickiness of **Tetric EvoCeram** and **Tetric PowerFill** facilitates the creation of anatomical tooth structures. Modelling instruments such as OptraSculpt® are ideal for this purpose.



## Flowable when desired

---


While **Tetric EvoFlow** is flowable under pressure, it remains in place when no pressure is exerted. Due to its thixotropic properties, Tetric EvoFlow can be applied exactly where it is needed, making it suitable for use as a liner as well as a desired choice for small defects or anterior restorations.



## Self-levelling consistency

---

**Tetric PowerFlow** ensures excellent adaptation to cavity walls. It is ideally suited to fill large cavities in the posterior region.



// I have used Tetric EvoCeram ever since it was launched. It is very reassuring to see that the quality of the restorations continues to be outstanding, even after a number of years. Therefore, I expect similar performance of the further developed Tetric® PowerFill. //

**Dr Eduardo Mahn**

Director, Clinical Research and Esthetic Dentistry Program,  
Universidad de los Andes, Santiago, Chile



## Time-tested quality and durability

---

The Tetric range of products combines proven product features with state-of-the-art technology. The first protagonist of this range, Tetric EvoCeram®, has been successfully used in clinical applications for over ten years.

**high radiopacity**

of up to 400 % Al

**low shrinkage stress**

of e.g. 2.1 % in the case of Tetric PowerFill

**long processing times**

of more than 3 minutes\*

**high flexural strength values**

e.g. Tetric PowerFill: 119 MPa \*\*

\* according to ISO 4049

\*\* batch W92823; measured by Ivoclar Vivadent



**Learn more about the topic of durability:**  
[www.ivoclarvivadent.com/telstudies-en](http://www.ivoclarvivadent.com/telstudies-en)

# One kit for all cavities

---

Ivoclar Vivadent has designed a kit that contains all the filling materials you need to restore all classes and sizes of cavities in the anterior and posterior region. The kit includes 4 types of composite resins in altogether 6 different shades that are intuitive to use.

**Tetric EvoCeram®**

shades A2, A2 Dentin and A3 are included in the kit

**Tetric EvoFlow®**

shade A3 is included in the kit

**Tetric® PowerFill**

shade <sup>IV</sup>A is included in the kit

**Tetric® PowerFlow**

shade <sup>IV</sup>A is included in the kit

The kits have been designed to fit the drawers of dental units.



Example of a  
Tetric Line System Kit

---

Class I and II

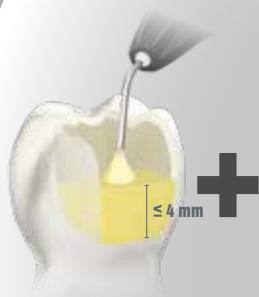


Tetric® PowerFill™ VA

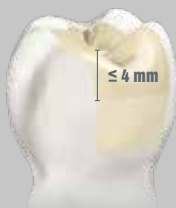


Tetric EvoCeram® A2/A3

Class III and IV



Tetric® PowerFlow™ VA



Tetric® PowerFill™ VA

**Tetric®**



Tetric EvoFlow® A3



Tetric EvoCeram® A2 Dentin



Tetric EvoCeram® A2



Tetric EvoCeram® A2/A3



Tetric EvoFlow® A3

Class V

# Experience the difference with **3s PowerCure**

---



When direct Class I and II restorations are placed in permanent posterior teeth, 3-second exposures from the occlusal aspect are sufficient for all curing steps with the Bluephase PowerCure in the 3sCure mode. Simply expose Adhese Universal, Tetric PowerFill and Tetric PowerFlow to the light- intensity of 3,000 mW/cm<sup>2</sup> produced by the curing light. You will notice right away that the curing time you require is considerably reduced. At the same time, you will continue to achieve the customary high-quality esthetic results.

“ There is no way around the polymerization of composite materials. A 3-second cure comes in exceptionally handy here. ”

**Dr Nathaniel Lawson**  
Assistant Professor and Division Director of Biomaterials  
UAB School of Dentistry, Birmingham, USA





## Save up to 57% on time in the posterior region<sup>1</sup>

Maximize the efficiency of your workflow with Tetric PowerFill and Tetric PowerFlow.

This means: You will need fewer increments, fewer changes of composite, modelling instrument and curing light to complete a restoration – whilst achieving the same or even better treatment results compared with conventional layering techniques.

The 3s PowerCure product system enables you to increase the efficiency of your workflow even further by offering 3-second exposure times compared with the placement of conventional 4-mm composites.

**Fewer steps thanks to 4-mm increments:**



# Efficient esthetics – even better together

The efficiency of the treatment procedure can be enhanced even further by combining the Tetric line with other state-of-the-art products from Ivoclar Vivadent.

// While I had to schedule 45 minutes for an MOD filling in the past, I only need 30 minutes today for this type of restoration in the same high quality and esthetics – thanks to Tetric® PowerFill, Adhese® Universal and the short light-curing times of the Bluephase® PowerCure. //

**Dr Petr Hajný**  
Prague, Czech Republic

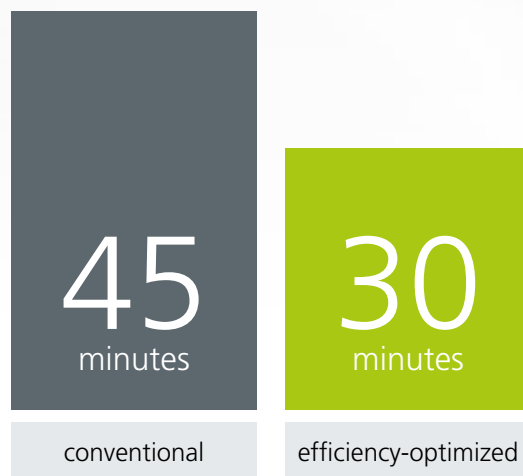


**3** instead of **2**  
**patients**

treated in the same amount of time without compromises in quality

**Save valuable time during appointments.**

The diagram compares the time scheduled for conventional and efficiency-optimized treatment protocols to place Class II MOD restorations.



Source: Special Feature "A fast and comfortable way of restoring teeth", Ivoclar Vivadent



**More information:**  
[www.ivoclarvivadent.com/hajny-en](http://www.ivoclarvivadent.com/hajny-en)





## Effect 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 **Adhese**® **Universal** with the efficient VivaPen®



### 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 **OptraPol**®



### Restore

**Tetric**® – The solution for all cavity classes

# 3

# Tetric® CAD – the esthetic composite block

Tetric CAD is an esthetic composite block for the efficient fabrication of indirect single-tooth restorations by means of the CAD/CAM technique. Due to the material's excellent chameleon effect, Tetric CAD restorations blend seamlessly with the remaining natural tooth structure.

Tetric CAD ideally complements the Tetric line range of conventionally layered composite resins for inlays, onlays, veneers and crowns. Immediately after grinding, the restorations are polished and then seated using an adhesive cementation protocol. This processing technique is very efficient and allows esthetic results to be achieved quickly and easily.

The blocks are available in two translucency levels: MT (Medium Translucency, recommended for laminate veneers and crowns), which is available in five shades, and HT (High Translucency, recommended for inlays and onlays), which is available in 4 shades. While the small size I12 block is suitable for inlays, the large block C14 provides sufficient material for a crown.



// Tetric CAD is fast and easy to process. After the restoration has been ground, it can be polished to a high gloss in no time. //

**Dr Lukas Enggist**  
Ivoclar Vivadent, Schaan, Liechtenstein

## Indications:

Tetric composites	Tetric CAD
Direct restorations	Indirect restorations
Class I – V	Inlays, onlays, veneers, crowns

# Delivery forms

## Tetric composites

### Tetric EvoCeram® – The universal composite

<b>Refills</b>	available as 1x 3-g syringes, 3x 3-g syringes and 20x 0.2-g Cavifils in the following shades: <b>Enamel shades (12% ):</b> A1, A2, A3, A3.5, A4, B1, B2, B3, C1, C2, C3, D2, D3 <b>Dentin shades (7% ):</b> A2 Dentin, A3.5 Dentin, A4 Dentin, B2 Dentin <b>Highly translucent enamel shade (15% ):</b> T <b>Bleach shades:</b> Bleach XL, Bleach L, Bleach I, Bleach M
<b>Shade guide</b>	<b>Tetric EvoCeram shade guide</b>

### Tetric EvoFlow® – The universal flowable composite

<b>Refills</b>	available as 1x 2-g syringe and 20x 0.2-g Cavifils in the following shades: <b>Enamel shades (12% ):</b> A1, A2, A3, A3.5, A4, B1, B3 <b>Dentin shades (7% ):</b> A2 Dentin, A3.5 Dentin, B2 Dentin <b>Highly translucent enamel shade (23% ):</b> T <b>Bleach shades:</b> Bleach XL, Bleach L, Bleach M
<b>Shade guide</b>	<b>Tetric EvoFlow shade guide</b>

### Tetric® PowerFill – The sculptable 4-mm composite

<b>Bluephase PowerCure &amp; System Kit Syringe</b>	<b>1x Bluephase PowerCure 100–240V with system kit:</b> 1x 3-g syringe Tetric PowerFill <sup>®</sup> A, 1x 2-g syringe Tetric PowerFlow <sup>®</sup> A, 1x 2 ml Adhese Universal VivaPen
<b>Bluephase PowerCure &amp; System Kit mixed</b>	<b>1x Bluephase PowerCure 100–240V with system kit:</b> 20x 0.2 g Tetric PowerFill <sup>®</sup> A, 1x 2-g syringe Tetric PowerFlow <sup>®</sup> A, 1x 2 ml Adhese Universal VivaPen
<b>Tetric PowerFill System Kit Syringe</b>	1x 3-g syringe Tetric PowerFill <sup>®</sup> A, 1x 2-g syringe Tetric PowerFlow <sup>®</sup> A, 1x 2 ml Adhese Universal VivaPen
<b>Tetric PowerFill System Kit mixed</b>	20x 0.2 g Tetric PowerFill <sup>®</sup> A, 1x 2-g syringe Tetric PowerFlow <sup>®</sup> A, 1x 2 ml Adhese Universal VivaPen
<b>Refills</b>	available as 1x 3-g syringes, 3x 3-g syringes and 20x 0.2-g Cavifils in the following shades: <b>Universal shades (15% ):</b> IV <sub>A</sub> , IV <sub>B</sub> <b>Bleach shades:</b> IV <sub>W</sub>
<b>Shade guide</b>	<b>Tetric PowerFill &amp; Tetric PowerFlow shade guide</b>

### Tetric® PowerFlow – The flowable 4-mm composite

<b>Refills</b>	available as 1x 2-g syringes and 20x 0.2-g Cavifils in the following shades: <b>Dentin shades (&lt;10% ):</b> IV <sub>A</sub> , IV <sub>B</sub> <b>Bleach shades:</b> IV <sub>W</sub>
<b>Shade guide</b>	<b>Tetric PowerFill &amp; Tetric PowerFlow shade guide</b>

### Tetric-Line – The solution for all cavities

<b>Tetric-Line System Kit Syringe</b>	1x Tetric PowerFill <sup>®</sup> A, 1x Tetric PowerFlow <sup>®</sup> A, 1x Tetric EvoCeram A2, 1x Tetric EvoCeram A3, 1x Tetric EvoCeram A2 Dentin, 1x Tetric EvoFlow A3, 1x Adhese Universal VivaPen
<b>Tetric-Line System Kit mixed</b>	10x Tetric PowerFill <sup>®</sup> A, 1x 2-g syringe Tetric PowerFlow <sup>®</sup> A, 10x Tetric EvoCeram A2, 10x Tetric EvoCeram A3, 5x Tetric EvoCeram A2 Dentin, 1x 2-g syringe Tetric EvoFlow A3, 1x Adhese Universal VivaPen

#### Accessories

**20 x 1.2-mm tips black**  
Tetric PowerFlow



**20 x 0.9-mm tips black**  
Tetric EvoFlow and  
IPS Empress Direct Opaque



<sup>1</sup> Translucency (sample values), Technical Data Sheet Ivoclar Vivadent

