Tetric EvoCeram® Bulk Fill
High-performance posterior composite

The most efficient posterior composite!

NOW ALSO AS FLOWABLE!

Tetric EvoCeram® Bulk Fill
sculptable

Tetric EvoFlow® Bulk Fill
flowable
Natural-looking esthetics – efficient placement

With Tetric EvoFlow® Bulk Fill and Tetric EvoCeram® Bulk Fill, unique posterior restorations can be created. These materials are based on the chemistry of the time-tested universal composite Tetric EvoCeram with 10 years of documented clinical success.

Both products provide an ideal blend of esthetics and efficiency, while also addressing the issue of shrinkage stress.

1 Ivoclar Vivadent AG, Scientific Report, 10 Years Tetric Evolution, 2014; Vol. 01

*compared to Tetric EvoFlow and Tetric EvoCeram. Data available on request.
Efficient posterior restorations

Two-layer technique

1. Tetric EvoCeram® Bulk Fill
2. Tetric EvoFlow® Bulk Fill

Single-layer technique

1. Tetric EvoCeram® Bulk Fill
Leading through innovation

The highly reactive, patented light initiator Ivocerin is the decisive advantage of the sculptable Tetric EvoCeram Bulk Fill and the flowable Tetric EvoFlow Bulk Fill.

Ivocerin is significantly more reactive than conventional initiators and therefore allows large increments of up to 4 mm to be polymerized in just 10 seconds.\textsuperscript{2,3} This polymerization booster fills the gap between the traditional initiators used in today’s composite materials.

\textsuperscript{4} Heintze S. Sicheres Aushärten des Komposits auch bei fehlerhafter Polymerisation. DZW 2013; 44:14; also see: Research and Development Report, Ivoclar Vivadent AG, Ivocerin® – a milestone in composite technology., No. 19, 2013

With the bulk-fill composite Tetric EvoCeram Bulk Fill I can effectively restore even large posterior cavities while obtaining maximum quality. At the moment, it can be assumed that Tetric EvoCeram Bulk Fill will show a low annual failure rate similar to that of other proven micro- and nanohybrid composites (e.g. Tetric EvoCeram).

Prof. Dr Jürgen Manhart
Polyclinic for Conservative Dentistry and Periodontology, Munich, Germany
Making all the difference: Aessencio technology

The tried-and-tested Tetric EvoCeram Bulk Fill is distinguished by its enamel-like translucency. Apart from Ivocerin, Tetric EvoFlow Bulk Fill additionally features Aessencio technology, a proprietary development by Ivoclar Vivadent which further enhances the lifelike appearance of the restorative result. It allows a dentin-like volume replacement of up to 4 mm to be light-cured in 10 seconds ($\geq 1,000 \text{ mWcm}^2$).

Tetric EvoFlow Bulk Fill’s high translucency of 28 per cent before light-curing diminishes to a dentin-like translucency of 10 per cent during the curing process. Given this attribute, dentin discolouration can be reliably masked.

The flowable Tetric EvoFlow Bulk Fill with its dentin-like translucency is the perfect complement to Tetric EvoCeram Bulk Fill, which features enamel-like translucency. Both composites come in the universal shades $^a$A, $^a$B and $^a$W.

Tetric EvoFlow Bulk Fill is the perfect complement to the universal composite Tetric EvoCeram and the bulk-fill composite Tetric EvoCeram Bulk Fill. They offer me the advantage of a fast procedure, without any trade-offs. The reduction in translucency that occurs during the polymerization step (Aessencio technology) and the light initiator Ivocerin are among the most important innovations we have seen in recent years.

Dr Eduardo Mahn
Director of Clinical Research, Universidad de los Andes, Santiago, Chile
Reduced shrinkage strain due to the shrinkage stress reliever

Two types of shrinkage affect the quality of a restoration: volumetric shrinkage and shrinkage stress. These forces cause materials to pull away from the cavity walls during polymerization.

The filler composition of Tetric EvoCeram Bulk Fill and Tetric EvoFlow Bulk Fill includes a special, additional composite filler which relieves shrinkage strain. Due to its lower elastic modulus, this filler is flexible like a microscopic spring and thus reduces shrinkage stress. The result is optimum marginal integrity. And the shrinkage forces are comparable to those occurring in proven 2-mm composites, as are the volumetric shrinkage values.

Shrinkage stress [MPa] pulling forces acting on the cavity walls via the surface

<table>
<thead>
<tr>
<th></th>
<th>Bulk Fill</th>
<th>Conventional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shrinkage stress reliever</td>
<td>E-Modul 10 GPa</td>
<td>E-Modul 10 GPa</td>
</tr>
<tr>
<td>Glass filler</td>
<td>E-Modul 71 GPa</td>
<td>E-Modul 71 GPa</td>
</tr>
<tr>
<td>Monomer chain</td>
<td>Kraft</td>
<td>Kraft</td>
</tr>
</tbody>
</table>

Measurement acc. to Watts in 2-mm and 4-mm layers using a Bioman shrinkage stress measuring device, R&D Report, Ivoclar Vivadent AG / 1 AADR 2012 Abstract 858

*Due to the flowable consistency of flowable composites, only 0.8-mm layers can be measured.
Long working time

due to the light sensitivity filter

The composite contains a patented light sensitivity filter that ensures a longer working time under operatory and ambient light conditions.

This light sensitivity filter acts as a shield, delaying the effects of ambient light. However, dental curing lights are able to penetrate this shield. As a result, the composite offers the unique combination of a fast curing time with extended working time.

<table>
<thead>
<tr>
<th>FLOWABLE</th>
<th>SCULPTABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>More than 4 minutes</td>
<td>More than 3 minutes</td>
</tr>
</tbody>
</table>

Measurement acc. to ISO 4049 (8,000 lux), R&D Ivoclar Vivadent AG, December 2014
Viscosity matched to your needs

Dentists working with Tetric EvoCeram Bulk Fill appreciate the material’s excellent handling properties. It does not stick to the instrument, remains stable while you are working and easily adapts to cavity walls. The viscosity controller is responsible for this behaviour. Moreover, this posterior composite has a pronounced chameleon effect.

The level of flowability and viscosity of Tetric EvoFlow Bulk Fill was established with the help of clinicians, adjusting it to their needs in the placement of bulk-fill bases. The result is excellent surface affinity and unique self-levelling handling. Ideally, the perfectly matched Tetric EvoCeram Bulk Fill is used as capping material for Tetric EvoFlow Bulk Fill.

Both bulk-fill composites can also be used in the conventional technique involving thinner layers. Even then the materials offer tremendous advantages. The highly reactive Ivocerin incorporated into the light initiation system of Tetric EvoCeram Bulk Fill and Tetric EvoFlow Bulk Fill provides a more reliable depth of cure. This is particularly useful in cases where e.g. the increment thickness is difficult to assess or the optimum position of the curing light hard to find.

1 Peschke A. Ein neues Bulk-Fill-Material in der klinischen Anwendung. DZW 2013; 45:10-11


Preoperative situation: Fracture of the lingual wall of tooth 36, cracked buccal cusp

At the recall examination after one year

I believe that Tetric EvoCeram Bulk Fill is a very good composite material with excellent handling properties. Furthermore, it simplifies and expedites the layering procedure. You can almost say that, once you have worked with Tetric EvoCeram Bulk Fill, you no longer want to work with conventional composites.

Dr Markus Lenhard
Dentist with private practice in Neunkirch, Switzerland
## Delivery forms at a glance

### Refills

<table>
<thead>
<tr>
<th>Type</th>
<th>Translucency</th>
<th>Syringes</th>
<th>Cavifils</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Translucent</strong></td>
<td>1 x 3 g</td>
<td>3 x 3 g</td>
<td>20 x 0.2 g</td>
</tr>
<tr>
<td><strong>Opaque</strong></td>
<td>10 x 3 g</td>
<td>150 x 0.2 g</td>
<td></td>
</tr>
</tbody>
</table>

### Dentin-like shades

<table>
<thead>
<tr>
<th>Shade</th>
<th>Description</th>
<th>Translucent</th>
<th>Syringes</th>
<th>Cavifils</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td>(universal A shade)</td>
<td>&lt;10%</td>
<td>646472WW*</td>
<td>646473WW</td>
</tr>
<tr>
<td><strong>B</strong></td>
<td>(universal B shade)</td>
<td></td>
<td>667724WW*</td>
<td>667725WW</td>
</tr>
<tr>
<td><strong>W</strong></td>
<td>(white shade for deciduous teeth and light teeth)</td>
<td></td>
<td>667727WW*</td>
<td>667711WW</td>
</tr>
</tbody>
</table>

### Enamel-like shades

<table>
<thead>
<tr>
<th>Shade</th>
<th>Description</th>
<th>Translucent</th>
<th>Syringes</th>
<th>Cavifils</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A</strong></td>
<td>(universal A shade)</td>
<td>15%</td>
<td>638244WW</td>
<td>638241WW</td>
</tr>
<tr>
<td><strong>B</strong></td>
<td>(universal B shade)</td>
<td></td>
<td>638245WW</td>
<td>638242WW</td>
</tr>
<tr>
<td><strong>W</strong></td>
<td>(white shade for deciduous teeth and light teeth)</td>
<td></td>
<td>638246WW</td>
<td>638243WW</td>
</tr>
</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>Type</th>
<th>Translucent</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Shade guide</strong></td>
<td>667472</td>
</tr>
<tr>
<td><strong>20 x 1.2-mm cannula, black</strong></td>
<td>669838</td>
</tr>
</tbody>
</table>

* 5 x 1.2-mm cannulas each
Tetric EvoCeram® Bulk Fill and Tetric EvoFlow® Bulk Fill form a part of the “Direct Restoratives” product category. The products of this category cover the procedure involved in the direct restoration of teeth – from preparation to restoration care. The products are optimally coordinated with each other and enable successful processing and application.

**Adhese® Universal**
The universal adhesive

- Universal adhesion with advanced delivery
  - Efficient Delivery – up to 190 single-tooth applications per VivaPen®
  - Universal Application – for all bonding and etching techniques
  - Predictable Results – high bond strength on dentin and enamel

**OptraGate®**
Latex-free lip and cheek retractor

- The gentle solution for a better view
  - Considerably enlarged access to the treatment field
  - Enhanced patient comfort due to three-dimensional flexibility
  - Wide range of indications

Would you like to know more about the products of the “Direct Restoratives” category? Simply get in touch with your contact person at Ivoclar Vivadent or visit www.ivoclarvivadent.com for more information.