

Natural-looking
**esthetics –
efficiently** produced

Tetric Evo **Composites**



Tetric Evo**Ceram**®



Tetric Evo**Flow**®



Tetric Evo**Ceram**® Bulk Fill



Tetric Evo**Flow**® Bulk Fill

Conventional composites

2005



Tetric EvoCeram®

2007



Tetric EvoFlow®

2011



Tetric EvoCeram® Bulk Fill

Bulk-fill composites

2015



Tetric EvoFlow® Bulk Fill

featuring the Aessencio® technology

Time-tested and innovative

Since its introduction 10 years ago, the universal composite Tetric EvoCeram® continues to be one of the leading composite restoratives on the market. It has proven its durability in clinical practice.

Tetric EvoCeram was the first product of the Tetric Evo range. Today, this composite family comprises four innovative products, which are representative of the progress that composite technology has undergone in recent years.

The Tetric Evo product line offers dental professionals everything they need – sculptable and flowable consistencies, lifelike esthetics, efficiency, longevity, low shrinkage, colour stability and high wear resistance.

More than
150
million
restorations
placed
worldwide

Results from 10 years of research

Tetric EvoCeram is highly valued in dental practices throughout the world.

Patients can expect composite restorations that remain intact and maintain their esthetic appearance over many years.¹ Long-term studies show the exceptional dependability of this material.²

Many noted experts have contributed to the ever growing database of in-vitro and clinical results from studies on the Tetric Evo family of products.²

This wealth of scientific data attests to the clinical long-term success and the popularity of the Tetric Evo product range.



¹ Ivoclar Vivadent AG, 10 Years Casebook, 2014

² Ivoclar Vivadent AG, Scientific Report 10 Years Tetric Evolution, Vol. 01, 2014

95.1 % survival rate*

4.9% failures



Prof. Dr Jürgen Manhart

Department of Restorative Dentistry
Munich, Germany

”

I have used Tetric EvoCeram® for a decade.
My patients' fillings look great, even years after
placement. “

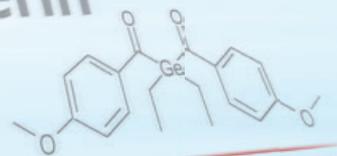
* In seven clinical studies conducted throughout the world, 890 restorations were examined over an observation period of 5-10 years. The overall survival rate of Tetric EvoCeram was 95.1 percent.

Time-tested yet innovative



Aessencio
technology

Ivocerin



A look at the composites

Conventional composites

Confidence. Reliability. Esthetics.



Tetric EvoCeram®



Recommended indications

Class I, II, III, IV, V;
fillings in deciduous teeth

Tetric EvoCeram is a universal composite that imparts anterior and posterior teeth with exceptional esthetics.

Since its introduction ten years ago, Tetric EvoCeram has ranked among the leading composite restoratives on the market. Its longevity has been confirmed in clinical practice.

Available in 4 Dentin, 14 Enamel and 4 Bleach shades

The flowable complement.



Tetric EvoFlow®



Recommended indications

As a liner in Class I to V cavities;
Class III, IV; all types of small restorations

Tetric EvoFlow is the top-selling flowable composite in Europe. The flowable version of the proven Tetric EvoCeram is characterized by its very good radiopacity and ideal consistency. The product is **flowable** when desired and **stable** as required.

Available in 8 Enamel, 3 Bleach and 3 Dentin shades

Bulk-fill composites

Proven. Efficient. Esthetic.



Tetric EvoCeram® Bulk Fill



Recommended indications

Class I, II, V; fillings in deciduous teeth;
core build-ups

Tetric EvoCeram Bulk Fill is a highly efficient sculptable 4-mm bulk-fill composite for posterior teeth. It marks a decisive step in the development of the Tetric Evo product range.

Tetric EvoCeram Bulk Fill is a further developed version of Tetric EvoCeram which has been proven a million times over. In situations where it is difficult to estimate the increment thickness, the formulation containing the highly reactive initiator Ivocerin ensures very reliable curing results.

Available in 3 enamel-like universal shades: ^{IV}A, ^{IV}B and ^{IV}W

The flowable complement.



Tetric EvoFlow® Bulk Fill
featuring the Aessencio technology

Recommended indications

As a liner in Class I and II cavities;
fillings in deciduous teeth

Tetric EvoFlow Bulk Fill is a highly efficient, flowable 4-mm bulk-fill composite. It demonstrates an unrivalled low translucency for a bulk-fill material. Therefore, it successfully conceals discoloured dentin.

Tetric EvoFlow Bulk Fill is particularly suitable for deep cavities **due to its highly flowable and self-levelling** properties. A universal composite such as Tetric EvoCeram or a bulk-fill composite such as Tetric EvoCeram Bulk Fill is applied as a covering layer. Both options produce highly esthetic results in posterior teeth.

Available in 3 dentin-like universal shades: ^{IV}A, ^{IV}B and ^{IV}W



2004: Defective composite restoration in tooth 12



2005: Final picture



2014: The restoration still shows excellent dimensional stability and esthetic qualities.
Prof. Dr Jürgen Manhart, Munich, Germany



Class V



As a liner



Small restorations
Dr Eduardo Mahn, Santiago, Chile



Defective amalgam filling



After the placement of the restoration



The restoration after two years of service
Dr Arnd Peschke, Clinical Practice Ivoclar Vivadent AG, Liechtenstein



Before polymerization



The Aessencio technology is responsible for changing the translucency of the material during polymerization. This improves the smooth integration of the restoration in the surrounding tooth structure.



Tooth 37: Tetric EvoFlow® Bulk Fill covered with IPS Empress® Direct.
Tooth 36: Tetric EvoFlow® Bulk Fill covered with Tetric EvoCeram® Bulk Fill.
Dr Rafael Piñeiro Sande, Cambados-Pontevedra, Spain

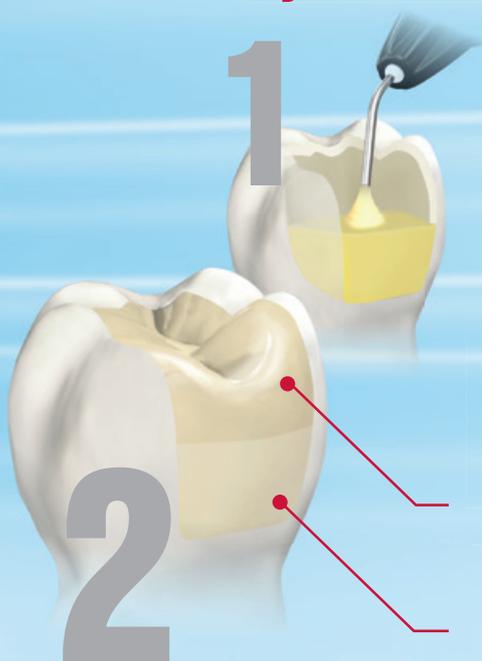
Have you started using bulk-fill composites yet?

Single layer technique



Tetric EvoCeram® Bulk Fill

Two layer technique



Tetric EvoCeram® Bulk Fill



Tetric EvoFlow® Bulk Fill

The bulk-fill composites from Ivoclar Vivadent represent a further developed version of the proven Tetric EvoCeram. The aim of the development was to simplify and accelerate direct restorative treatment procedures and ensure their predictability, while at the same time maintaining the customary quality and esthetics of the restorations.

Natural-looking esthetics, efficiently produced

In the development of bulk-fill composites Ivoclar Vivadent has taken a decisive step towards enhancing the esthetics of dental restorations. Due to the Aessencio technology and the patented light initiator called Ivocerin the product combines efficiency and esthetics in a very special way.

The product has a high technique tolerance. It can be applied in layers of up to 4 mm, which can be polymerized in only 10 seconds ($\geq 1,000 \text{ mW/cm}^2$). The occurrence of potential flaws, such as the entrapment of air, is prevented. This not only simplifies layering, but also enhances the polymerization result.

Heightened reliability

In cases where it is difficult to estimate the increment thickness or it is hard to position the light guide optimally, the two new composites ensure proper polymerization. The highly reactive Ivocerin initiator contained in the formulation is responsible for this feature.

Tetric EvoFlow Bulk Fill as well as Tetric EvoCeram Bulk Fill enhance the efficiency of restorative procedures in posterior teeth. The results are just as esthetic as those achieved with conventional composites.

Time saved compared with the conventional technique*

47%

*Compared with Tetric EvoFlow and Tetric EvoCeram. Data available on request.

Achieving your goal **quickly** and **comfortably**



Prof. Dr Jürgen Manhart

Department of Restorative Dentistry
Munich, Germany

” 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 loss rate similar to that of other proven micro- and nanohybrid composites (e.g. Tetric EvoCeram). “



Prof. Dr Reinhard Hickel

Department of Restorative Dentistry
Munich, Germany

” Ivoclar Vivadent is a world leader in the development of dental initiators. Research is going on at all major composite manufacturers. Due to the development of the highly reactive Ivocerin and the new Aessencio technology, however, Ivoclar Vivadent is one step ahead in the field of initiators.

Due to the highly reactive light initiator Ivocerin and the Aessencio technology, Tetric EvoFlow Bulk Fill is a unique product that stands out among all the other flowable materials on the market. Initially, the material is translucent.

During the curing process, the translucency diminishes and dentin discolouration is reliably masked. This is simply ingenious. “

Innovative technology skillfully used

Many dentists rely on the products of Ivoclar Vivadent, and with good reason. Clinicians around the world are attracted to the innovative technology and clinical reliability of the composites of the Tetric Evo product line.

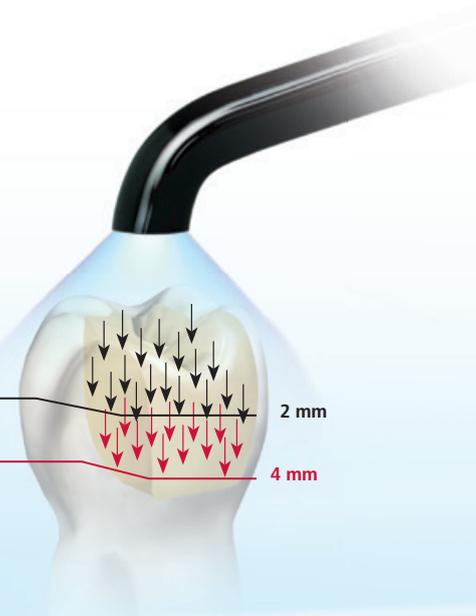
High depth of cure

With the help of the highly reactive light initiator known as **Ivocerin®** a previously insurmountable technological hurdle has been overcome. Therefore, it is now possible to achieve high depth of cure and maximum esthetics after only a short light exposure time.³



Effect of a standard initiator system & Ivocerin

Effect of Ivocerin



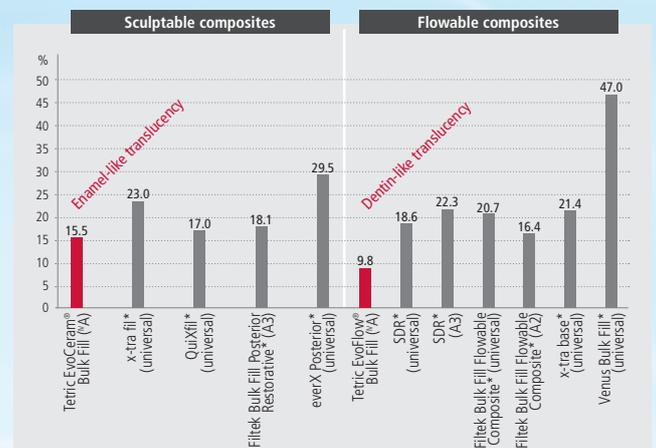
Esthetic optimization

The **Aessencio® technology** represents a significant milestone in the esthetic optimization of bulk-fill composites. During the polymerization process, the translucency level of Tetric EvoFlow Bulk Fill changes. This allows stained dentin to be effectively concealed.⁴



The in vitro test demonstrates the effect of the Aessencio technology: The black lines under the Tetric EvoFlow Bulk Fill sample are clearly visible before polymerization. Due to the change in the translucency level, they are no longer visible after polymerization.

Translucency [%]



Measurement: R&D Ivoclar Vivadent AG, December 2014
The measurements were taken with a Minolta CM-5 spectrophotometer.

* These brands are not registered trademarks of Ivoclar Vivadent AG.

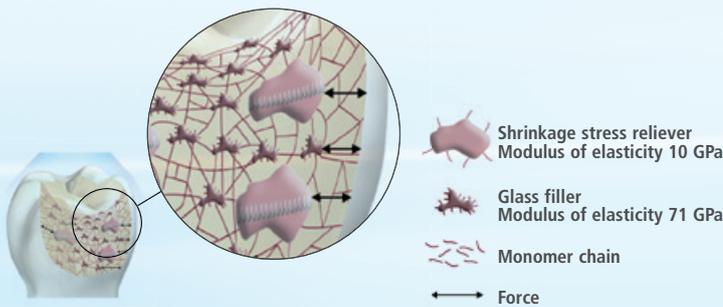


³ Ivoclar Vivadent AG, Research and Development Report of Ivoclar Vivadent AG, Ivocerin® – a milestone in composite technology, No.19, 2013

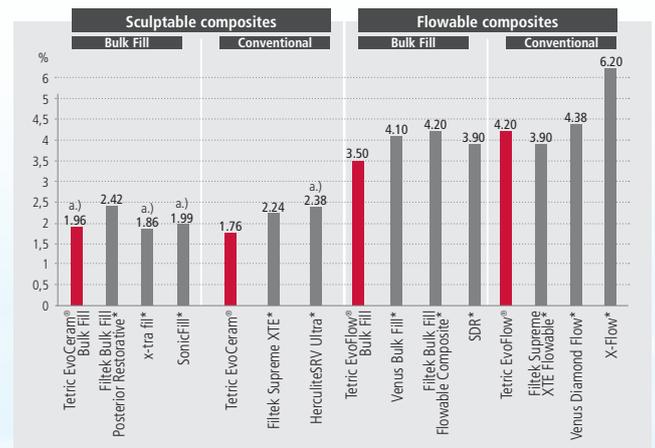
⁴ Ivoclar Vivadent AG, Research and Development Report of Ivoclar Vivadent AG, Tetric EvoFlow Bulk Fill, No. 20, 2015

Low shrinkage stress

The patented **shrinkage stress reliever** minimizes the shrinkage and shrinkage stress of the Tetric Evo products.^{3,4} The shrinkage forces of the bulk-fill composites from Ivoclar Vivadent are comparable to those of conventional 2-mm composites. Their volume shrinkage is also comparable.



Volume shrinkage [%]



Measurement: R&D Ivoclar Vivadent AG, December 2014 / a.) AADR 2012 Abstract 858

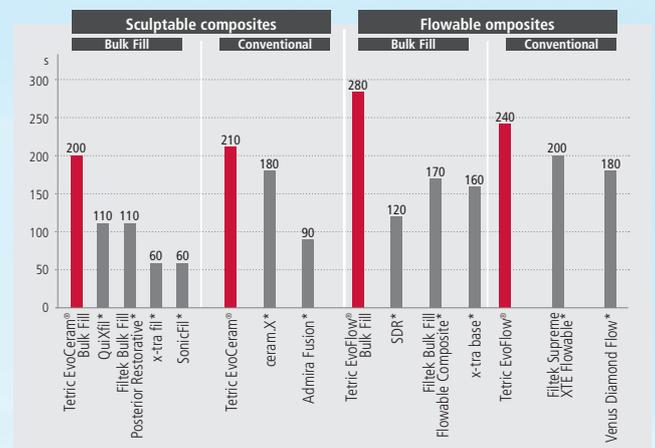
The shrinkage of the sculptable composites was measured with a mercury dilatometer during one hour. The shrinkage of the flowable composites was determined according to ISO 17304 (Archimedes' principle) after 24 hours.

* These brands are not registered trademarks of Ivoclar Vivadent AG.

Extended working time

The patented **light sensitivity filter** extends the working time of Tetric Evo products under operatory lights compared with that of other composites, and therefore it reduces the pressure on the dental practitioner.⁴

Working time [s]



Measurement according to ISO 4049 (8,000 lux): R&D Ivoclar Vivadent AG, December 2014, April and October 2015

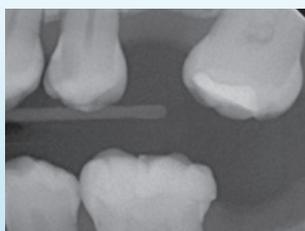
* These brands are not registered trademarks of Ivoclar Vivadent AG.

Time-tested technology, skillfully used

Dental professionals like to depend on the composites of the Tetric Evo product range due to their innovative yet time-tested technology. The successful results they have achieved with these products over the years confirm their choice.

Diagnosis

Ytterbium fluoride is responsible for the exceptionally good radiopacity of the products. It significantly facilitates the diagnosis of any secondary caries under Tetric Evo materials.



Preoperative X-ray



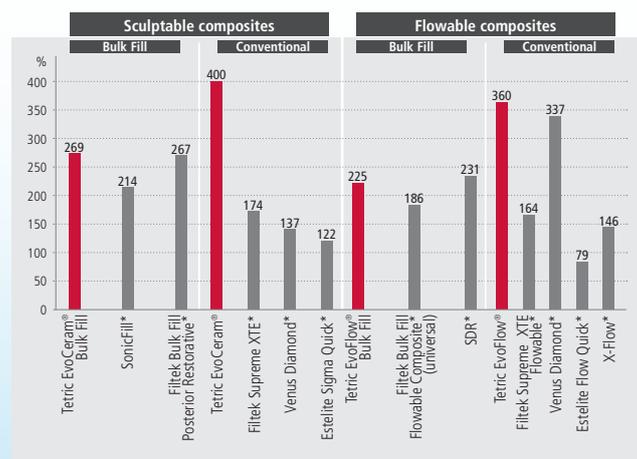
Postoperative X-ray: Excellent radiopacity of Tetric EvoFlow® Bulk Fill and Tetric EvoCeram® Bulk Fill

Dr Eduardo Mahn, Santiago, Chile

Handling characteristics

The Viscosity Controller regulates the flowability of the composites to facilitate the application and handling of Tetric EvoCeram, Tetric EvoCeram Bulk Fill and Tetric EvoFlow.

Radiopacity (AI %)



Measurement according to ISO 4049: R&D Ivoclar Vivadent AG, Schaan, December 2014

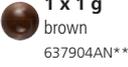
* These products are not registered trademarks of Ivoclar Vivadent AG.

	Tetric EvoCeram® Universal composite			Tetric Evo Flow® Flowable composite		Tetric EvoCeram® Bulk Fill Sculptable bulk-fill composite			Tetric EvoFlow® Bulk Fill Flowable bulk-fill composite	
Assortment	590290WW, 8 x 3-g syringes 1 x A1, A2, A3, A3.5, A4, B3, C3, D3 1 x Tetric EvoCeram shade guide 			595951WW, 8 x 2-g syringes 1 x A1, A2, A3, A3.5, A4, B3, A3.5 Dentin, T 1 x Tetric EvoFlow shade guide 40 x 0.9-mm tips 						
	590291WW, 40 x 0.2-g Cavifils 5 x A1, A2, A3, A3.5, A4, B3, C3, D3 1 x Tetric EvoCeram shade guide 			595950WW, 40 x 0.2-g Cavifils 5 x A1, A2, A3, A3.5, A4, B3, A3.5 Dentin, T 1 x Tetric EvoFlow shade guide 						
Shade guide	590292WW			595952WW		667472			667472	
Refills	Syringes 1 x 3 g	Syringes 3 x 3 g	Cavifils 20 x 0.2 g	Syringes 1 x 2 g*	Cavifils 20 x 0.2 g	Syringes 1 x 3 g	Syringes 3 x 3 g	Cavifils 20 x 0.2 g	Syringes 1 x 2 g**	Cavifils 20 x 0.2 g
Dentin shades	 7% ¹			 7% ¹		 15% ¹			 < 10% ¹	
A2	637549WW	637736WW	637356WW	641360WW*	641349WW					
A3.5	590323WW	590304WW	590342WW	595980WW*	595994WW				VA 646472WW** 646473WW	
A4	590324WW	590305WW	590343WW						PB 667724WW** 667725WW	
B2	590325WW	590306WW	590344WW	641361WW*	641350WW					
Enamel shades	 12% ¹			 12% ¹						
A1	590312WW	590293WW	590331WW	595953WW*	595987WW					
A2	590313WW	590294WW	590332WW	595954WW*	595988WW					
A3	590314WW	590295WW	590333WW	595955WW*	595989WW	VA 638244WW	638241WW	638227WW		
A3.5	590315WW	590296WW	590334WW	595956WW*	595990WW					
A4	590316WW	590297WW	590335WW	595978WW*	595992WW					
B1	637547WW	637734WW	637354WW	641358WW*	641348WW					
B2	590317WW	590298WW	590336WW			PB 638245WW	638242WW	638228WW		
B3	590318WW	590299WW	590337WW	595957WW*	595991WW					
C1	590319WW	590300WW	590338WW							
C2	590320WW	590301WW	590339WW							
C3	590321WW	590302WW	590340WW							
D2	637548WW	637735WW	637355WW							
D3	590322WW	590303WW	590341WW							
Highly translucent Enamel shade T	 15% ¹			 23% ¹						
T	590326WW	590307WW	590345WW	595979WW*	595993WW					
Bleach shades										
Bleach XL	590327WW	590308WW	590346WW	595981WW*	595995WW					
Bleach L	590328WW	590309WW	590347WW	595982WW*	595996WW					
Bleach I	590329WW	590310WW	590348WW			VA 638246WW	638243WW	638229WW	VA 667727WW**	667711WW
Bleach M	590330WW	590311WW	590349WW	595984WW*	596008WW					

Characterization

Assortment **637898AN IPS Empress® Direct Color/Opaque Assortment**
 1 x 1 g white, yellow, blue, purple, ochre, brown, grey
 1 x 1.8 g IPS Empress Direct Opaque
 40 x 0.4-mm tips
 5 x 0.9-mm tips

Refills

 1% ¹	 1 x 1 g white 637899AN***	 1 x 1 g yellow 637900AN***	 1 x 1 g blue 637901AN***	 1 x 1 g purple 637902AN***	 1 x 1 g ochre 637903AN***	 1 x 1 g brown 637904AN***	 1 x 1 g grey 637905AN***
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Accessories

20 x 0.4-mm tip black
(IPS Empress Direct Color)
634847



20 x 0.9-mm tip black
(Tetric EvoFlow and IPS Empress Direct Opaque)
634849



20 x 1.2-mm tip black
(Tetric EvoFlow Bulk Fill)
669838



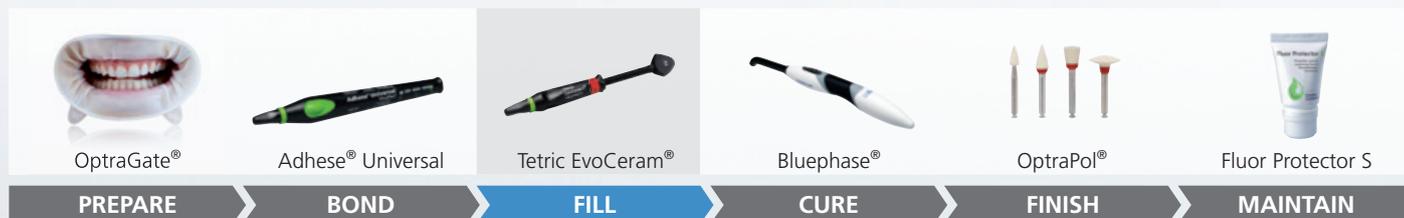
* 5 x 0.9-mm tips, ** 5 x 1.2-mm tips, *** 5 x 0.4-mm tips

¹ Sample values, Technical Data Sheet Ivoclar Vivadent



Direct Restoratives

The Tetric Evo products 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.



THESE ARE FURTHER PRODUCTS OF THIS CATEGORY:

Adhese® Universal

The universal adhesive



Universal adhesion with advanced delivery

- Efficient delivery – approx. 190 single-tooth applications per 2 ml VivaPen®
- Universal application – for all bonding and etching techniques
- Predictable results – high bond strength on dentin and enamel

Bluephase® Style

The polymerization light



The smallest LED for every use

- Every hand – comfortable to hold for men and women
- Every material – universal due to the Polywave® LED with broadband spectrum
- Every time – optional corded operation due to Click & Cure

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