Quick technique:
Tetric EvoCeram

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Ambient light in the dental examination room when placing composite restorations — a common cause of restorative failure — initiates premature curing of composite materials during final contouring, resulting in less predictable restorations. Solutions have been limited to materials that effectively slow the polymerization process.

However, these materials also increase curing time, making restorations more time consuming and costly. To solve the aforementioned issues, Tetric EvoCeram (Ivoclar Vivadent, Amherst, N.Y.), a universal nano-hybrid composite, was developed to provide dentists the ability to control curing in every situation.

Featuring “Polymerization on Demand,” Tetric EvoCeram provides industry-leading working and setting times through the incorporation of a special additive in the photo-initiator system. Less reactive to ambient light, the composite remains highly reactive to curing lights within the wavelength range of 400–500 nm.

A unique feature, the Polymerization on Demand system allows dentists to fully contour restorations and control curing, while the consistency of the material allows for simple placement. Additionally, Tetric EvoCeram demonstrates low polymerization shrinkage rates to limit incidences of marginal leakage and secondary caries.

Offering the best in esthetics, the refractive indices, monomers and nano-color pigments of the filler particles of Tetric EvoCeram provide life-like results in even the most challenging cases. The unique refractive index creates a chameleon effect, allowing the nano-fillers and nano-color pigments to blend with the natural tooth structures. Further, Tetric EvoCeram demonstrates high translucency and enhances shade adaptation to facilitate the shade matching process in cases requiring direct restorations.

Preventing the reflection of the fillers from scattering incoming light, the nano-hybrid particles demonstrate an average size of less than 550 nm. With this, restorations completed with Tetric EvoCeram offer high radiopacity and are clearly distinguishable from surrounding tooth structures and changes in the dental hard tissues, such as secondary caries. The size of the fillers also allow the composite to be polished in only 30 seconds and offers a high level of gloss similar to pure microfilled and nanofilled materials.

Tetric EvoCeram is indicated for use in a broad range of restorations in the anterior or posterior, and...
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* Excerpted from THE DENTAL ADVISOR Evaluation, November 2010, Volume 27, No. 09

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Ivoclar Vivadent is available in 22 shades to meet the esthetic requirements of any case. Offered in syringes or Cavifils, the composite can be placed simply and efficiently.

_Clinical procedure_

1) Place a rubber dam (OptraDam) to ensure proper and complete isolation.
2) Remove caries or prior restorations.
3) Disinfect the preparation with 2 percent chlorhexidine gluconate.
4) Apply 35 percent phosphoric etchant gel to the tooth for 15 seconds.
5) Place a matrix for cavities affecting the proximal area.
6) Place a single coat of unidose desensitizer (Telio CS Desensitizer) on the tooth for 10 seconds to rewet the dentin and to create protein-plugs in the tubules.
7) Apply two coats of single dose adhesive/desensitizer (ExciTE F) on the tooth for 10 seconds each and then air dry (A-dec Syringes, A-dec) to evaporate the solvent.
8) Cure the desensitizer for 10 seconds with an LED curing light (Blue Phase 20i).
9) Place a single increment, less than 1 mm, of translucent shade flowable liner material (Tetric Flow) on the pulpal floor and cure for 10 seconds.
10) Place and condense Tetric EvoCeram in the desired dentin shade with the ExciTE F applicator brush, taking care to ensure there are no voids between the composite and liner.
11) Place fissures in the dentin layer with a composite modeling instrument, which will facilitate the application of stains (Tetric Color) to simulate discolored fissures and cure the dentin layer for 20 seconds.
12) Place the enamel layer of Tetric EvoCeram in the desired enamel shade, sculpt to proper contour and cure the restoration for 40 seconds.
13) Adjust occlusion with a carbide bur (OS1, Brasseler) and polish the restoration with a one-step diamond polishing system (OptraPol) for 30 seconds._

_Contact_

For more information, please contact Ivoclar Vivadent at (800) 533-6825 or visit the company online at www.ivoclarvivadent.com.

_About the author_

Dr. Jason Olitsky is an accredited member of the American Academy of Cosmetic Dentistry, instructor and speaker with Gold Dust Clinical Mastery and adjunct faculty at the Arizona School of Dentistry and Oral Health.