

What's New in Composites



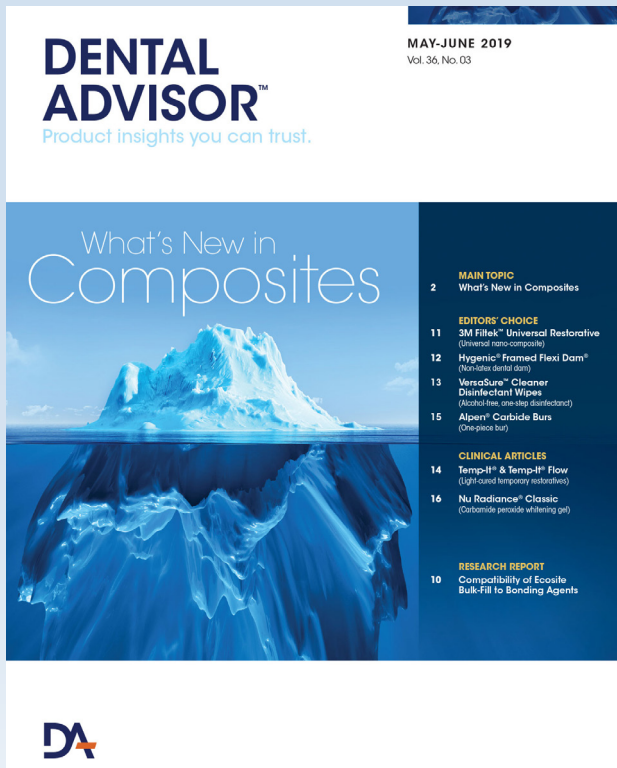
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FEATURED COMPANY:



KULZER
MITSUI CHEMICALS GROUP

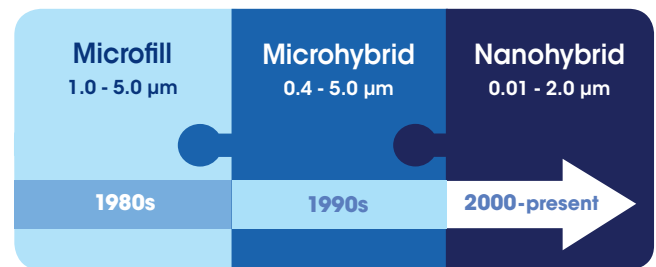
Kulzer



The goal of this issue is to simplify both the product selection process and the composite procedure from start to finish. We explain new terms and technology, recommend products evaluated by DENTAL ADVISOR, offer clinical tips for both anterior and posterior restorations and discuss matrix systems. I hope you find this information useful in your daily practice; you can explore each step of resin composite procedures in this one concise issue.

Evolution and Classification of Composites

Previous composites contained larger filler particles, which did not mimic enamel and had excessive wear over time. As the technology improved, newer composites contained smaller filler particles. Current composites are mostly nano-hybrid; however, there are three main types on the market today.



Microfills contain extremely small filler particles, allowing for high polish retention and enamel-like translucency. Microfills lack high strength, and are best used for esthetically-driven anterior restorations.

Microhybrids incorporate larger filler particles when compared to microfills, resulting in increased strength and a reduction in polishability and finish (more matte vs. glossy). They are chosen for their durability and best for posterior restorations.

Nanohybrids combine the best of microfill and microhybrid materials. They are referred to as universal composites because the combination of strength and esthetics make them suitable for both anterior and posterior applications.

TRADITIONAL UNIVERSAL COMPOSITES

Venus® Diamond (Kulzer)

Venus® Diamond leads the industry in color adaptability, with a patented formula that provides an outstanding natural look. Just one shade saves time and produces radiant results. Along with superb color esthetics, this revolutionary nano-hybrid composite exhibits exceptional durability, handling and minimal shrinkage.

- Extended working time for efficient sculpting.
- High durability with minimal shrinkage.
- Revolutionary nano-hybrid that enables perfect color adaptation, ease of polish and long-lasting shine.



ESTHETIC UNIVERSAL COMPOSITES

Venus™ Pearl (Kulzer)

Venus™ Pearl is a universal nano-hybrid composite based on the innovative urethane monomer chemistry of **Venus Diamond**. **Venus Pearl** offers the same combination of low shrinkage stress and high durability in a creamy consistency.

- BISGMA and BPA free.
- Ideal for fine detailed work.
- Well suited for anterior and posterior restorations.
- Exceptional sculptability and high degree of polishability.

