Inspired by nature: Zirconia Reinforced Composite

_Schütz Dental_ presents a new material combining high performance acrylics and zirconium dioxide. Tizian Zirconia Reinforced Composite blanks enables you to produce final restorations of up to 3 units and temporary restorations of up to 16 units.

These restorations stand out thanks to their outstanding antagonist and TMJ friendly properties. These bionic qualities derive from the moderate Vickers hardness and corresponding elasticity module. Chipping and breakage is reduced. Milling blanks (available in two heights) fit in the 98 millimetre open system holder (Fig. 1) and are suited to dry-milling.

This material is suitable to produce final restorations up to three-unit bridges (Fig. 2). This bridges might even expand to the posterior region. This adds to its suitability for final crown structures as well as fully anatomical crowns, inlays, onlays and veneers. This material can also be used for long-term temporaries for up to a whole arch and lasting for up to two years of wear.

The Tizian Zirconia Reinforced Composite is slightly elastic like the natural tooth and adopts a kind of "buffer function". Chewing forces are spread out in the jaw which reduces the selective stress on the bone. The bone remain intact. Thanks to the excellent physical properties, this material is ideal for implant restorations (Fig. 3) and for use on patients with CMD or Bruxism.

In combination with the veneering composite dialog Occlusal, you can rebuild the physics of the natural tooth as authentically as possible (Fig. 4).

Due to its hardness, the dialog Occlusal applied to the framework of Tizian Zirconia Reinforced Composite creates an accurate likeness to the natural enamel. Together, the two materials recreate the physics of the natural tooth. This is also referred to as the "bionic principle". The system is wear-resistant and abrasion-resistant whilst being gentle on the jaw joint and the antagonists.

Tizian Zirconia Reinforced Composite blanks come in a range of five tooth colours. Find more information here: http://sdent.eu/bionicprinciple_