industry news  Schütz Dental

Bionic restoration: Take the next step. Imitate nature. Imitate the best.

Schütz Dental is proud to introduce the latest concept of "bionic restoration". This system imitates both the aesthetics and the physics of the natural tooth.

The framework for the bionic restoration is made from Tizian Zirconia Reinforced Composite, a newly developed combination of high-performance acrylics and zirconium dioxide. This CAD/CAM material stands out for both its flexibility and stability. Owing to its flexibility, the framework acts as a buffer, reducing pressure on the jawbone and temporomandibular joint. This buffering effect is particularly relevant for implant-supported restorations and bruxism patients.

The Tizian Zirconia Reinforced Composite framework is veneered with a thin layer of dialog Occlusal veneering composite. The material is both abrasion resistant and antagonist friendly. This combination ensures that restorations last longer while being gentle on the natural teeth.

This system, consisting of both materials, imitates the physics of the natural tooth. The elastic core evenly distributes masticatory forces, reducing impact. Furthermore, the tough veneer renders restorations durable and aesthetic.

The bionic restoration is suitable for permanent inlays, onlays, crowns and bridges of up to three units. More information can be found at http://sdent.eu/bionicprinciple.

Fig. 1 The combination of Tizian Zirconia Reinforced Composite and dialog Occlusal imitates the physics of the natural tooth.
Fig. 2 Final treatment, up to three units.
Fig. 3 The system is perfectly suited to implant-supported restorations.

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CAD/CAM