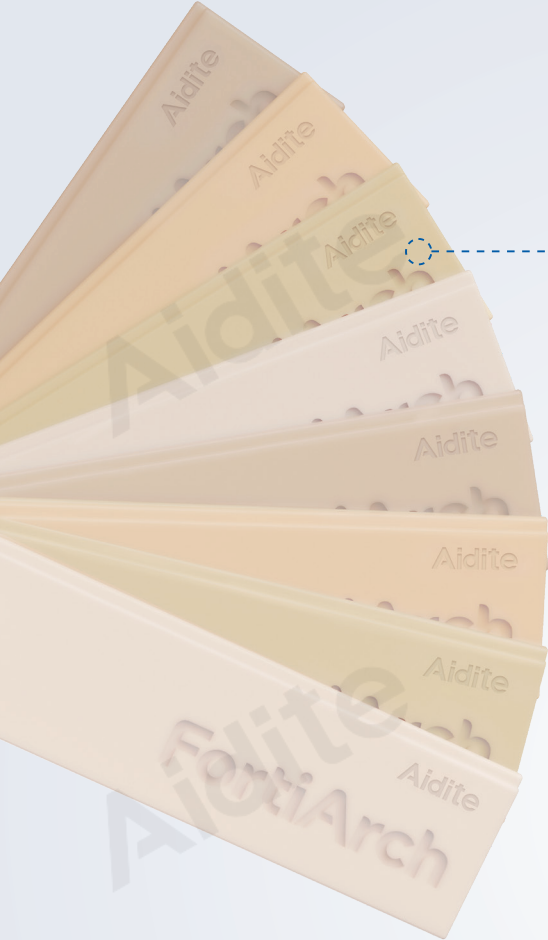


FortiArch

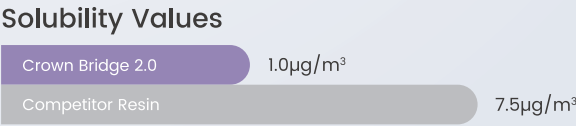
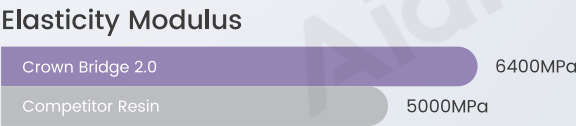
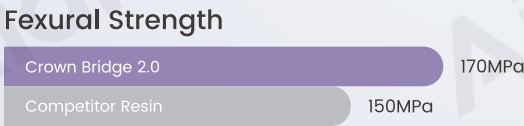
Crown



Combines translucency and aesthetics



Property >>>



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FortiArch

Crown Bridge 2.0



53% Ceramic filler | Excellent aesthetics | High wear resistance
High resistance to staining

Everyone with a healthy and beautiful smile

[53% Ceramic Filler »

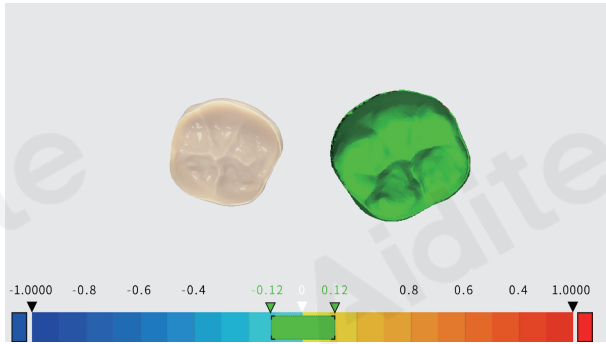
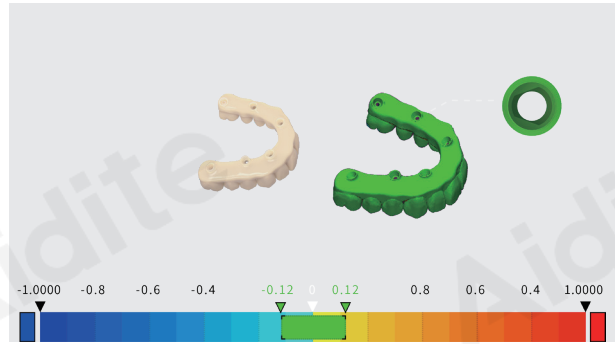
FortiArch Crown and Bridge Resin is elaborately formulated with rigid monomers, high-efficiency cross-linking agents, and micro-nano ceramic components. Among these, the ceramic component with high silane coupling degree accounts for up to 53wt% of the total content, endowing the product with numerous advantages:



● High precision moulding with low shrinkage and deformation rates

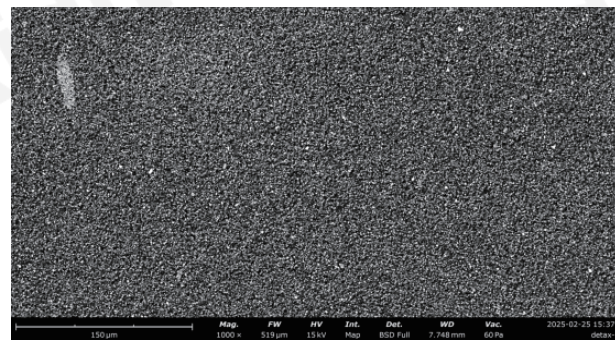
High ceramic content: 53wt% of micro-nano grade ceramic filler significantly reduces the polymerisation shrinkage of the resin and ensures dimensional stability during the moulding process.

Precision Detail Reduction: High filler content effectively inhibits the deformation of the material during curing and can accurately reduce complex structures to meet the needs of high-precision dental restorations.

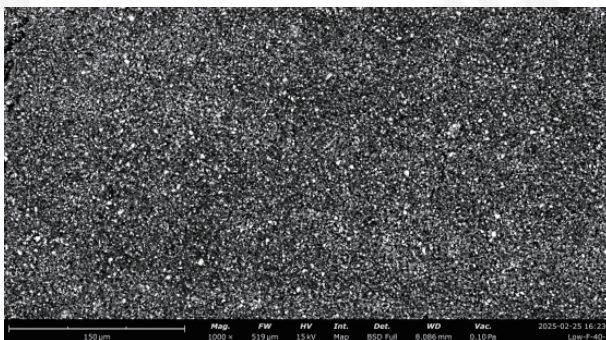


● High strength and wear resistance

Organic Modification Technology: Ceramic filler is organically modified to be able to deeply participate in the polymerisation reaction and form a strong interfacial bond with the resin matrix. **Excellent Mechanical Properties:** High filler content and strong interfacial bonding work together to give the material excellent flexural strength and abrasion resistance, ensuring the long-term durability of the restoration.



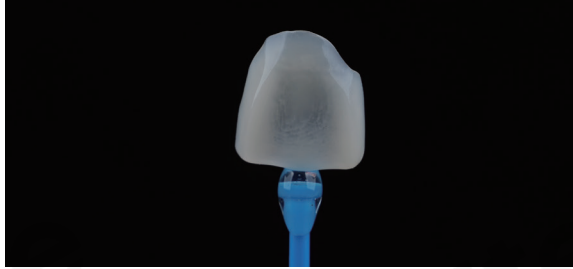
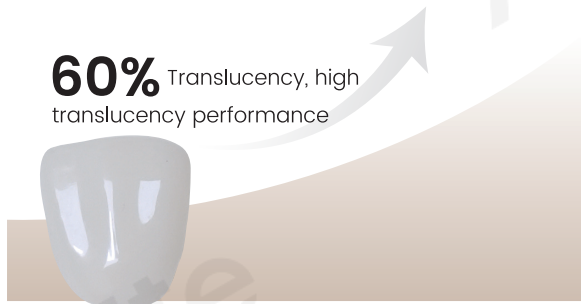
De*** (Low ceramic content)



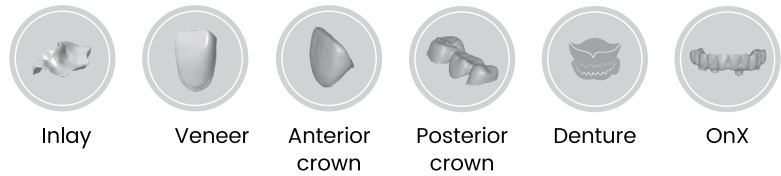
FortiArch Crown Bridge 2.0 (53% ceramic content)

* Compared with the electron microscope (EM) images of De*** (with a filler content of 20-30wt%), this product exhibits uniform filler dispersion, higher filler loading, and the use of irregularly shaped ceramic fillers. These irregular ceramics enable higher packing density, endowing the product with excellent wear resistance. The white particles in the image are the developed ceramic fillers.

● Excellent aesthetic performance



[Application »



[Shade »



[OnX »

Adapt to Time-Efficiency Needs: Rapid printing capability meets the requirements of immediate restoration, shortening the interval from implantation to loading.

Ensure Initial Stability: High fitting accuracy and dimensional stability guarantee tight bonding between the restoration and the abutment/tooth during loading, distributing occlusal force effectively.

Withstand Environmental Challenges: Resistance to thermal shock, wear, and excellent marginal adaptation enable the product to withstand changes in the oral environment and masticatory pressure after immediate loading, reducing the risk of early damage or infection.

Meet Aesthetic Expectations: Natural aesthetic performance satisfies patients' demands for dental appearance after immediate loading.



● Denture

Application features:

Perfect restoration of occlusal relationship, excellent wear resistance and stain resistance, long service life.

Stable and reliable, no risk of hidden cracks: After rigorous hot and cold cycle tests (rapid temperature changes from 50°C to 0°C), the full denture has no hidden cracks or deformations, and shows excellent thermal shock resistance.



High-precision occlusal restoration: The printed upper teeth can achieve occlusal precision $\leq 0.5\text{mm}$ without adjustment.

Long service life: After strict verification of intraoral wear, the service life of full denture in oral environment can reach more than 5 years.

During the service life, the accuracy and colour of the denture remain stable without any significant difference.

Single printing output: Horizontal printing can make 4 bridges at a time, printing time 40min.

● Veneer, Inlay, Anterior aesthetic crowns and posterior molar bridges

1. Excellent shade coverage: For discoloured or tetracycline teeth, the restorations can effectively cover the base colour and achieve a natural looking restoration.

2. Natural light transmission: The material has high light transmission (60%), which can simulate the light transmission effect of natural teeth, and the restored teeth have a natural colour and are highly integrated with the surrounding teeth.

3. High-precision lamination, strong marginal adhesion

Printed veneer fit: Using additive manufacturing technology, the fit of printed veneer and prepared tooth reaches $\leq 50\mu\text{m}$, far exceeding the fit precision of traditional veneer.



[Resistance to staining »

Adopting high heat-resistant and migration-resistant organic pigments, with stable molecular structure. When immersed in cola, red wine, or coffee for 30 days (at 37°C), the product rarely undergoes redox reactions.



Cola ΔE : 1.63



Red Wine ΔE : 2.47



Coffee ΔE : 1.17

[X-ray resistance »

FortiArch Crown Bridge 2.0 has excellent X-ray blocking properties, which meets the criteria for clinical use and facilitates the doctor's diagnosis.

